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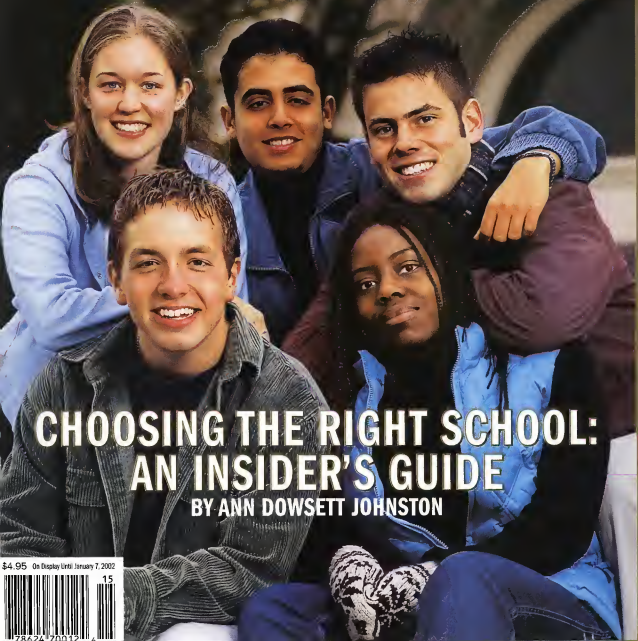
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CHOOSING THE RIGHT SCHOOL: AN INSIDER'S GUIDE

BY ANN DOWSETT JOHNSTON

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From the Editor

The Expos, from start to finish

I grew up in a diet almost exclusively English speaking part of Montreal at a time when I wasn't considered necessary for Anglos to speak much French. I finally started learning the language for real in my late teens, when my brother and I were chosen to coach a citywide all-star business baseball team. Most of the kids were glibly bilingual francophones, and we realized that if we were to teach them anything, we'd first have to be able to make ourselves understood. So we learned to say "Bonne nuit" for "Good night," "coup de crosse" for "home run," "doublet ou" for "second base" and so on. But the kids wanted to sound like their idols on the Montreal Expos, so they in turn, leant all of the traditional baseball slang phrases in English, and insisted on using them. That was bilingualism in its most friendly form during the late 1970s, when Quebec's language wars were arguably at their most intense.

Back then, Quebecers and other Canadians were coming to grips with the idea that the province, under its first-ever Parti Québécois government, might become sovereign. As Anglos and Francos squabbled, support for the Expos was one of the few things that could unite both language groups. And with the Toronto Blue Jays still in their infancy—and still a very bad baseball team—the Expos were Canada's Team. What proud Canadian, after all, would root for a Toronto team if there was another option?

These days, all that history—and so, it appears, are the Expos. By the time Major League Baseball announced that owners had voted to fold two teams last week—with the Expos all but certain to be one of them—the franchise had been losing enthusiasm for several years. These days, Montrealers, with the exception of a few thousand diehards, are as united in their indifference to the team as they once

were in their support. There's no shortage of theories as to why this happened: my own is that you can get a lot of the blame on dank, dark Olympic Stadium. It's the only ball park I've ever known that could cause even devoted ball fans to say "It's such a nice day, let's not waste it by going to the game." The small group of minority Expos shareholders who struggled so valiantly to keep their beloved team afloat—people like former chairman Jacques Méthé, the chairman of BMO Nesbitt Burns, and the ubiquitous Toronto-based Anne Bernier—understood that but along with indifference and a falling Canadian dollar, their efforts to build a new park ran up against an attorney when it comes to professional sports, Canadians morph into ferocious free-marketizers, while Americans turn into unrepentant socialists. Municipal and state governments in the U.S. routinely throw billions of taxpayer dollars into constructing facilities for sports teams, while Canadians don't like such waste.

Sure, there are fond memories of past Expos years, but overall, Montreal is now a much more enjoyable place than it was 20 or 25 years ago. Anglos and Francos get along better, the economy has staged a comeback, and the city's reputation as a cultural mecca again ascends, thanks to all its summer festivals and other events. And Canadian ball fans can take heart in some largely overlooked good news last week—the announcement of the eight cities that will take part in a new Canadian Baseball League in Western Canada: ranging from Kelowna and Kamloops to Regina and Saskatoon. Let their games begin.

Angie Van der Kolk

Maclean's

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Leading the way

SaskTel is well chosen as one of "Canada's top 100 employers" for all of the reasons you mentioned (Cover, Nov. 5), but it is SaskTel's deep commitment to the people of Saskatchewan that makes it a true maverick. SaskTel is a provincially owned leader in supporting sport and culture. It is no small wonder that SaskTel holds its strong long-distance market share, you don't have to look far to see that it gives back through volunteer efforts and monetary support. Good corporate citizens foster good employees, and I am proud to say I work for SaskTel.

Ken Reed, Regina

With 14-plus years in the military and service with all three branches, I know that the Canadian Forces should have been close to the top of your list of "Canada's top 100 employers."

Master Sgt. B.J. McDermott, St. John's

I believe that if you did surveys of the employees who work at these firms, you would find that many of your recommended top 100 would receive a failing grade despite their efforts to convince you otherwise. I am sure you will agree a firm that is aggressively hiring to replace lost employees should not make your list. It is

interesting that your results are based for the most part on the employees' reports about their own companies.

S.W. Shickell, Saskatoon

When judging a business, one of the first concerns to be assessed is their "culture." This defines the particular characteristics of a business, which are implemented by senior management and represent the key features that affect performance. At the same time, the people closest must be judged in such areas as attitudes, morale, training and development, succession planning, interaction with the organization, performance measurement and relationship with the community. I submit you were wrong in not including Hamilton-based steel producer Duffco as the top of your list.

Robert M. Hamilton, Burlington, Ont.

Not on the list

It's intriguing to see a Canadian magazine talking about former General Electric CEO Jack Welch ("The CEO's CEO," Business, Nov. 5). What did he really achieve? Cost-cutting, good managers everywhere do that. Product development? Of course, that's central to capitalism. Innovation? Some claim he promoted people; the evidence is that he was good at putting people down. Where are the good managers in Canada? Among the 100 best companies to work for? Do they have to be flamboyant to get your attention? Or can they just be effective at what they do?

Patrick L. Bishop, Toronto, Ont.

'Sowing dragon's teeth'

Bruce La Nefler Paine for expressing his views so succinctly against the atrocities in Afghanistan ("Bombs and bread," Over to You, Oct. 29). As Canadians (or citizens of any country), we should be able to express our own views without being labelled anti-American. I find it was a mis-

In defence of the U.S.

Since Sept. 11, a massive letters critical of American policies and actions have appeared in Canadian newspapers and magazines. Have any of these critics tried to put themselves in the place of the world's only superpower? Have they considered that no matter what this superpower does, it will reap criticism? Whenever the Americans become involved, some will say why are they interfering, that's none of their business. Yet if they don't get involved, others will ask why don't the Americans do something about it? I do not wish to become an American, but I'll take the Americans' share of anyone for non-door neighbors. I believe that foreign policies are based on their best available assessment of the situation and are forged with good intentions. Americans don't deserve a free ride, but neither do they warrant most of the prejudiced criticism they have recently received.

John L. Howe, Kelowna, B.C.

take to involve and send Canadian troops to this ill-considered aggression when we should be maintaining our stance in the world as peacekeepers, not because we don't have the armaments or budget to do so, but because it is not in our honorable role. Trouble with our government is it wants to be hot-bits where they and not hot-bits black sheep.

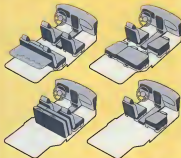
E.M. Fleming, London, Ont.

"The Taliban practices were often erroneously referred to as part of their culture," wrote Nefler Paine. Cannot be that when women are tormented, it's a "cultural" issue, and when men are the victims, it's a human rights violation? In this vein, it is interesting to note that the Taliban's destruction of the Buddhas images generated more media coverage than the destruction of Afghan women that has been happening for years.

Elton Thorne, Ajax, Ont.

Nefler Paine has suggested a peaceable and workable solution to the terrorist dilemma, honoring the innocent and reflecting the trouble in its origins. Too many countries, as Paine said, from Saudi Arabia to the United States, have fed too

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much money to the Taliban, for their own cynical reasons. They have sown dragon's teeth. Why not invite a descendant of Mohammed to take the throne of Afghanistan? The country has long been a home to the Muslims, descendants of Hadram, Mohammed's great-grandfather. Over centuries, this family has kept the respect of all Islam, for a myriad of reasons. They alone have the pragmatic resources to deal with the terrorists.

Harold E. Wilson, Columbia Island, B.C.

It is said that the pea is mightier than the sword, and I plead with every politician who has something to say about the bombing in Afghanistan to please take note of "Bombs and bread."

Stan Proulx, Landmark, Man.

Senior activity

I would like to applaud you for including inspiring pictures of active seniors like William Prosser and Zuzma Hamud ("Living long and living well," Health Report, Oct. 25). It is nice to see a positive and positive image of Canadian elders. I cannot recall the last time I read an article or saw a television program with an elderly individual exercising. Instead, we are more likely to see a senior advertising life insurance or a home hospital bed. Although we would like to increase the number of years spent disability-free, we need to provide support in environments that would increase the physical activity rates of seniors. For example, group programs are more effective because of the motivation and companionship they provide. It is possible to age gracefully—and positive images will inspire and encourage seniors to remain active.

Joanne Neagishi, Pickering, Ont.

"Serious sport"

Nice try, Dr. Poth ("Strong in South Bend," Nov. 5). But in your attempt to characterize mid-American, you overlooked George Orwell's keen observation: "Serious sport has nothing to do with fair play. It is bound up with hatred, jealousy, boastfulness, disregard of all rules and sadistic pleasure in witnessing violence: in other words it is war minus the shooting."

Wynne Shandhu, Mississauga



Hamud is an inspiration to remain active.

Church and state

I was surprised to see a photograph of a Canadian whose bag donated to relief in Afghanistan read "A Christian response to hunger" ("Too little, too late," Special Report, Nov. 5). The word "Christian" is highly insensitive, if not totally inappropriate. Since when did Canadian aid become Christian aid?

Wynne E. Lister, Downs

Mike's legacy

What's with Allan Gregg of The Stranger General and his attack on Ontario Premier Mike Harris ("Property but not for all," Canada, Oct. 25)? He says, "The public did not warmly embrace either Harris or his revolution," yet "to the surprise of some and the dismay of others," it continued to back him. Well, perhaps to the surprise of Gregg, the public did warmly embrace him, not just once, but twice, and would have again if media types had not done a hatchet job.

E. L. Martens, Colborne, Ont.

I take issue with Allan Gregg's statement that Mike Harris "must get credit for the unprecedented prosperity that made the province the growth leader of the nation." To credit him with the boom would also

require, tempting as that may be, that we blame the Conservatives for the recession that now looms. Harris's legacy will be remembered by many as schools without enough textbooks, while millions are squandered on TV advertising as how good a job is being done in education, overcrowded emergency rooms where people lie for days in halls, long waiting lists for cancer treatment and elective surgery, decaying transit systems because the province downloaded on communities that do not have the resources to upgrade them and more homelessness on the streets.

Betty Freedman, Durham, Ont.

Mixed Midlands

Sorry to niggle, but the 1885 Midland Invasion came from Victoria, Durham and Northumberland counties of Ontario, the old Midland District of Upper Canada, and not from the community of Midland, which is well to the west ("Back to the future," Entertainment News, Nov. 5). Volunteers from former Midland Free Press editor Paul Welch's home town joined the York and Simcoe Battalion, headed by its local MP, Lt.-Col. W.E. O'Brien. On May 12, 1885, the Midlands, under their MB Lt.-Col. Arthur Williams, led the impressive attack on the Métis in Batoche that ended the Northwest campaign. Williams died of typhoid on the way home, branding a legend that his heart had been broken when the general in command offered blame, not praise, for his misadventure. Williams's bold stroke had one militia as well as Métis lives.

Donna Marie, Markham

"Back to the future" left a misleading picture of the history of my ancestors. The Legend of Canada Jack. Reaction from readers and editors has made it clear that they found it far from "good enough." And I did not so much offer it "as no charge" as refuse payment for it. My reason for writing the novel was to bring to light the story of those 1885 militiamen, for them and for Canada. Few of the publicists interested in Canada Jack, which have donated considerable resources to the project, fall into the category of "arranging, smaller puppets."

John E. H. Tucker, Victoria

The flu is not a cold. It's worse.

And you can probably prevent it.

THE DIFFERENCE BETWEEN A COLD AND THE FLU

SYMPTOM	COLD	INFLUENZA
Fever	Rare	Usual, high fever (101°F/38°C, 104°F/40°C) within one, lasts 3-4 days
Headache	Rare	Usual, can be severe
General aches and pains	Sometimes, mild	Usual, often severe
Nutrient and protein	Sometimes, mild	Usual, severe, may last 2-3 weeks or more
Extreme fatigue	Unusual	Usual, only mild, can be severe
Nearly stuffy nose	Common	Common
Sneezing	Common	Sometimes
Nose bleed	Common	Unusual
Chest discomfort, coughing	Sometimes, mild to moderate	Usual, can become severe
Complications	Occasional when progression is swift	Can lead to pneumonia and respiratory failure, can become a medical emergency, can be life threatening

PREVENTION Frequent hand washing. Annual vaccination and frequent hand washing.



Cold and flu symptoms are often similar. However, the flu is more severe, longer and can lead to serious, life-threatening complications. It's an important respiratory disease that affects, among other things, your breathing (asthma) and can have serious complications.

Every year between 500 and 1500 Canadians die due to complications from the flu. People most at risk are small children, the elderly and people with chronic medical conditions. That's why it's important to protect yourself. Because you're also protecting your family. You flu shot is free for all Ontarians. Don't get sick. Get the flu shot. See your doctor or call 1-800-FLU-NOW (1-800-368-6968).

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Let's stop the flu

Overture

Edited by Shanda Deziel with Amy Cameron

Over and Under Achievers

The PM's shaky week

▼ **Joe Chrétien:** Takes a thoughtful pause at Joe Clark's academy to turn shaky hands. Joe politely points out that the PM of all people, should be sensitive to appearances.

▼ **Stockwell Day:** Has refused to say if he will fight for Alliance leadership conference until the right push. Stock needs to come clean and let his party, and the Times, move on.

▼ **Stephane Dion:** Dares Ralph Klein to break medicine rules and explain to Albertans why Ontario has cut off cash. Just to see the fight! First-prize minister role on a new free-lander vanquishing Quebec separatists.

A beer for simpler times

The nearly two-year-old Stasin Wheat Beer has an oral past about it. First there's the building—a former CNE site in Toronto, once 1929 called The Roundhouse. The beer company owners, **Greg Heaps**, **Greg Stowell** and **Greg Taylor** had one third of the building's 8,100 square metres renovated into a bright, clean space for brewing and bottling. And at the centre of it all is a working steam whistle that was found on site. They have also made room for offices, an event hall for concerts, weddings, etc., an art gallery space once bar stocked with free samples. Plus there is still a large outdoor area holding old-time cars, parts and trucks. The brewery, located downtown just steps away from the SkyDome and CN Tower, has become a draw for beer enthusiasts and beer historians.

But beer is about more than just where it's made. The owners all worked at Upper Canada Brewery Co.—which was started by Heaps' father **Frank**—and understood that success hinges on a tasty product and a good pitch. On both accounts, Stasin Wheat is a



Heaps can't help brewing his own Stasin Wheat

doing something unique. Many microbreweries make only ales, as lagers require a longer fermentation period. But these partners lived in German lager nation. **Harold Sowade**, and ignored his expertise in equipment, ingredients or taste.

As for marketing, no one can deny

the appeal of their retro look—heavy 1950s-style canvas green bottles that come in old suitcase-like boxes. They also make sales calls and deliveries in classic pickup trucks. "We had the sole notion of the '50s when products were made to last and life was simple," says Heaps, the 27-year-old president. "We felt we could associate that feeling with a beer. The trademark symbol of a cold beer at the end of the day" **S.D.**



wiped—the sudden onset of all your computer work. **Copysheet** or **visualize** to adopt the scent of oranges or orange-peppars with whom one is speaking. **Prokhorov** Oscar de la renta or

pinkish—the paper or cloth or any smudged on hospital and other patients. **Angin**, **temper** or **me-mall**—the form letter forms send out around Christmas time. He best a boot their travel and career accomplishments. **Melapex**, **dirty-dumb** or **misadventure**—lyrics that are often awkward and then sung economy.

Bluecheeser on the bootrout

Ever needed a word to describe something only to find the English language lacking? Wanted Words, a CMC radio segment hosted by **Joe Korman** this morning, finds and fills language gaps with the help of online dictionaries from word to word. Their suggestions have been compiled in a new book, **Wanted Words 2** (Stoddart Publishing). A few examples:

Enten rule or **Rock-off**—the plastic bar used to check droppers' position at the checkout counter. **Leggish**, **blackboard**, **blackboard** or **blackboard**—a Canadian who, adopting under seasonal dress, wears shorts in very cold weather. **Shorts**—a hatless path cut through snow or saplings, approximately the width of one foot. **Blackboard**, **blackboard** or **blackboard**—

The first time Leo truly heard the "music" his grandson was listening to.

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I want my MTV Undergrads

Four months later, in high school and became friends. Nic, the reserved good guy, Cel, the hip-hop ladies man, Koko, the part-time actor, and Gimp, the techno-freak, are the first year at university. The friends go their separate ways, but find themselves down back to one another for support. It is the making of a new television animated series, *Undergrads*, created by **Pete Williams**, aka Nic.

When he was a film student at New York University four years ago, Williams made an animated short film called *The Clark* based on his buddies. It won MTV's Character Screen Test Competition. Then, MTV took Williams' idea and made it into the series *Undergrads* with the help of Toronto-based animation house Decade Entertainment Inc. "It's a bit of a *Chappelle* story," says **Keith Stevenson**, *Undergrads* producer and a Decade vice-

president. "We became MTV's glass slipper." Known for working on animations that are distinct to cartoonists—*Angels in America*, for example—Decade was the right fit to develop the series. Williams is still involved, voicing the characters of Nic, Cel and Gimp. But most of the production is now in the



hands of Canadians—including the director, animators, Web site designers and other voices. "We went down to New York for meetings at the MTV office and we were walking around thinking, I don't know that I am cool enough to be here," laughs Stevenson. But like the awkward characters themselves, that's just endearing. **Any Gamers**

48 hours of serious cyberness

It's Saturday morning, Nov. 3, at the Ontario Science Centre—the venue for the World CyberGames Canadian qualifying tournament. In a few hours, the place will be teeming with thousands of mostly teenage and twenty-something computer gamers from across the country vying for one of 14 spots on the Canadian team. The winners will travel to Seoul in December to square off against elite players from more than 35 countries for a shot at the \$350,000 (U.S.) prize. The hopefuls come prepared for the 48-hour marathon with sleeping bags, cans of cola, and good-luck charms, like stuffed toys and monkeys, to perch atop their computer monitors. "The World CyberGames" says the 31-year-old Canadian tournament organizer, **Greg Averbach**, "wants to

be recognized as the Olympics of computer gaming."

At the moment, four dozen bleary-eyed competitors stare intently at their screens, headsets clamped, desperately tapping away on their key boards. They've been here all night practicing. Some walk around discussing one another's "freaked out rigs"—like one through computer towers with glowing monitors. Others sleep sprawled across white plastic patio chairs or rest their heads on tables between mouse pads and empty McDonald's bags.

Sullivan Petty, 19, enters the room and addressing colleagues as quick to introduce themselves. Must use their game-playing handles, as names like Roni Farnit and in blood are more recognizable here than John



Petty stands out in a crowd of the country's top computer gamers

or Rex Petty, aka Dmr. . . . Is a professional gamer. A native of Quebec City, he now lives in South Korea, where StarCraft, one of the tournament games, is a cultural phenomenon and matches are even broadcast on TV. Petty's expertise at the

game made him \$60,000 last year in sponsorship and tournament prize money. "In Korea, gaming is like a sport," says Petty, who won a spot representing Canada. "When I walk down the street, I get recognized."

Derek Chazal



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A pastor's predicament

And again, though responsive, marrying Sam I am. Marrying gay and lesbian couples.

Last week, the Ontario Superior Court began hearing a constitutional challenge by gay couples in that the legal right to marry is not more heterosexual than it is. The majority among gays and lesbians. Some same-sex couples, having lived together for short or long times, are in need for any trials. Some couples, nonetheless, want them and they ask me to officiate. I'm a retired professor and United Church minister. Where I live, in Sudville, N.B., the options are limited. A couple can go to Fredericton, where there is a Unitarian Fellowship, or to Halifax, where there is a Metropolitan Community Church (MCC). And very recently, Centenary/Queen Square United Church in Saint John, N.B., became an affirming congregation—open to gay, lesbian, bisexual, transgender folk. However, in Sudville there are no church sanctuaries available. There are open Christian clergy, but no open Christian congregations in southern New Brunswick.

Many homosexual couples ask me to marry them, fewer go forward to an actual ceremony. Two young men set a date with me over a year in advance, but parental interference proved difficult—the ceremony was postponed, then cancelled. The couple finally decided to do without. Sometimes, those asking are quite young—too young in my opinion. The Toronto MCC guidelines strongly recommend that couples marry only if they have lived together for at least a year—I believe there is real wisdom in that. In the case of one young couple who had not lived together, one of the parents had not come out to her parents. I said there would be no ceremony unless that step was taken. I felt confident that the prospect of sharing her actual orientation with her family and parents would cost the father for a ceremony. I was wrong, and the religious parents came to the wedding.

I started out assuming that like heterosexual couples, I'd share the news of any prospective wedding with the couple's religious community. Without that support, I was very reluctant to proceed. But with gay couples—no way! They demanded small, quiet weddings and were unwilling to counterbalance the prospect of my publicity—no one was to be told, not even a congregation or -members. I am a very committed church person and it hurts me deeply to operate solo. On the



I am a committed church person and it hurts me to operate solo

other hand, the marriage of gays and lesbians are as sacred as any heterosexual union. I am profoundly conflicted about this.

At one time, I feared the United Church would come down on me for my marrying-Sam role. No danger. I was something of a safety valve to clergy pushed by heterosexual couples—"My assent would never approve, but there is this person in Sudville...." My retired status is an asset. I don't have a session to which I am accountable. The United Church focuses on sponsoring wedding loans, special permission is required. I don't ask for it. It's easier to be forgotten for these anomalous ceremonies than to be permitted to perform them. I am a member of presbytery, a church court higher than the session. Though general counsel, the United Church's highest body, advises presbyteries to encourage and bless same-sex unions, my presbytery is prone to postpone.

After my son came out to me 15 years ago, I've been involved in gay advocacy and for the past six years I've led two chapters of PFLAG (Parents, Families and Friends of Lesbians and Gays). Recently, however, I've noticed a marked change in the weddings I perform. Several months ago, a Sudville couple, Wade and Michael, asked if I would officiate at their wedding. I readily agreed, having known both families for years. Then they asked: "What about marriage preparation?" At first, I hesitated. But a PFLAG colleague knew about a pertinent resource—the Gay Male and Lesbian Partner Program, complete with both a leader manual and participant workbook. The resource is not markedly different from heterosexual

couples, but the language is cleaned up—not assuming that only heterosexuals fall in love, but that homosexuals do, too. Michael and Wade wanted a real wedding—in a church, with a minister, religious language, music, flowers, rings and 150 guests. They said so, openly, in the pews. Wade, a student at Mount Allison University, requested use of the chapel. A period of preparation followed, but permission was finally granted. The couple now proudly identify themselves as Wade and Michael Oudon-Smiths. Their public declaration initiates a new chapter in my life. And still a reluctant, though responsive, marrying Sam I am.

Elden Hay is an emeritus professor at Mount Allison University and has with married the 2001 Queen's University Atlantic American Award for part for his work as a gay and lesbian advocate.



NAUTICA



Peter C. Newman

Paul Martin's grand dream

Finally, some good news

Last week's rumour that Will Street money might be so tied up with our plummeting dollar they won't do business with us may have been a false alarm. They have decided to keep trading loans.

Provided they're filled with chocolate.

The problem is that our currency doesn't buy much anymore, especially in the United States. Our contribution to George W. Bush's Grand Coalition consists of five warships, six planes and a few hundred soldiers. But by the time that takes force is converted into American dollars, it amounts to a few ounces, a scout troop and a pair of flying squirrels.

There are some of the wily states making the rounds as Paul Martin prepares his much-awaited December budget.

It's not an enviable task, particularly since he is undertaking this tricky assignment in his double capacity as minister of finance and Prime Minister in Waiting. The documents will thus reveal not only his determination to square the circle of keeping the federal budget balanced while financing the unexpected war on terrorism, but also clues to what he might do if he outlives Jean Chrétien and guides the Liberal crown.

Paul Martin's politics are deeply rooted in the mainstream of Canadian Liberalism. That means he subscribes to a moderate ideology, best described as polite populism. You campaign from the Left, govern from the Right and hold on to the Middle Middle, where most Canadian voters comfortably hang out.

What's different about Martin, and the reason he is the most interesting among the current crop of politicians to the Liberal crowd, is that more than any other Canadian politician, he is plugged into the seismic upheavals shaping the global economy. At head of the G-20 ministers of finance meeting in Ottawa this week (and due to take over the equivalent G-7 group chairmanship after that), he is at the leading edge of efforts to salvage the world's crippled economies from fiscal chaos. Interestingly, he views this as a short-term task that's only part of a much more dramatic re-alignment of global forces.

"Right now," he told me during a recent interview, "we're going through profound transformations, almost the occasion of nation-states in new directions. In that process, Canada must have as open and transparent economy because we depend so much on what's going on. While I believe in a free market, somebody has got to watch it."

Talking to Martin, especially when he is in full flight, de-

claiming his utopian schemes, I realised that he is the kind of imaginative vision that Canada has lacked for the past decade or more. "We must develop a much stronger conscience in terms of our responsibilities to others," he insists. "It is non-sensical, for example, that there is not an international environmental organisation of states as a body that can deal with an epidemic like AIDS. What we're doing now is just simply muddling along, getting ourselves burned from post to post, which may be fine if you're as big and powerful as the United States. But for the rest of us, it's not a good way to go."

What Martin has in mind is nothing less than a See-Test-like reorientation of how the world works. "What I'd like to see is essentially to duplicate in terms of international governance what we do domestically," he continues, suggesting such initiatives as a form of international equalisation payments, international instead of domestic health-care statutes, free education up until the end of high school, the formation of a global council of a local banking system and so on.

At this point, although we were talking in a plush hotel room, Martin got up and started to pace, waving his arms for emphasis. He had the tenor of a true believer who sees finance ministers as playing a pivotal role in the evolution towards a new society. "We're moving beyond the financial area and getting into the social arena," Martin says, "because finance ministers end up funding all of these programs anyway I've talked to most of them from the G-20 about these states and there are a number of us, I'd say the majority, who are now pretty well accepting that agenda as an international responsibility."

If all this sounds idealistic and vague, that's because it is. "I can get a lot more specific and I have been," says Martin. "But the ultimate answer is not a neat little box. We are not talking about world government. We are talking about international environmental programs and other initiatives that can be realized without creating new codes of international bureaucracy. Instead, what to do with increasing common approaches. In the G-20, we will begin by establishing common standards in terms of banking regulation, then move to shared environmental regulations, followed by education. Of course, we have to recognize that the poorer countries won't have the means to accomplish all this. Just as West Germany had a responsibility to put East Germany on its feet, that's the kind of responsibility that we must take on as well."

It may be crazy to dream of reforming a world economy that has lost its direction and threatens to engulf our individual dreams and national hopes. But it's even crazier not to try. ■

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The Week That Was

STORM-RAVAGED IN ATLANTIC CANADA

A series of storms hit Atlantic Canada, bringing flooding, property damage, bridge closures and power outages. The storm, a convergence of the remnants of Hurricane Michelle and fast and a third weather system, was much stronger than forecasters had expected. In New Brunswick, some 7,000 people in the Fredericton area were left without power only Thursday. In P.E.I., storm surges combined with high tides to submerge some wharfs and coastal roads. And in Cape Breton, the seawall around the Strait of Cans was closed to slow-moving heavy ocean freighters.



That sinking feeling in Port Head, N.S.

Israel withdraws

Under intense international pressure, Israel withdrew tanks and troops from Hebron, the Palestinian-controlled town, and out of government in the West Bank. Israeli forces had plunged into an Palestinian-held town in October, searching for militants after the assassination of Palestinian tourism minister Pithonwan. They have since pulled out of four of the towns, with expectations they will soon quit the two remaining locations.

No dodging the pain

Bank of Canada governor David Dodge warned Canadians to brace for even more economic pain. In response, the loonie dropped to yet another record low—82.36 cents (U.S.). "It's going to be really quite difficult out there," Dodge said, adding that third- and fourth-quarter growth would be virtually nonexistent or possibly even negative. The Bank of Canada governor also made it clear that the central bank is ready to be "fairly aggressive" in continuing to cut interest

rates to support economic activity—regardless of the effect on the country's currency.

Spain's separatists

Despite worldwide outrage over terrorism following the Sept. 11 attacks in the United States, Basque separatists were suspected



Regimen for a Spanish judge

of keeping up their reign of terror in Spain. Political judge Jose Maria Leticia Corb, 50, was shot and killed as he drove out of his garage in Oviedo on the outskirts of the Basque port city of Bilbao. The day

before, a car bombing in Madrid had wounded 55 people. Police arrested two people in connection with that incident, identifying both as ETA members. The attacks dashed hopes that ETA, which has fought a bloody 33-year campaign for an independent Basque homeland, would follow the post-Sept. 11 lead of the Irish Republican Army and begin disarming.

Compensation time

A retired Supreme Court judge recommended that Thomas, Sophonow receive \$2.6 million in compensation for a wrongful murder conviction that lasted him in jail for nearly four years. The recommendation was one of 43 in a 300-page report from Peter Cory, who presided over an eight-month inquiry into the case. The document also called for limiting the use of plea-bargain informants, who were instrumental in Sophonow's conviction in the strangulation death of 16-year-old Barbara Stoppa in St. Boniface, Man., in 1981. After three trials, a Manitoba Court of Appeals judge released

Sophonow in 1995. He released the gems stolen in Stoppa's death until the police and Crown admitted their error last year.

Off the lam

A 30-year manhunt ended when police in Mount Vernon, N.Y., arrested a Patrick Dorian Carson, accused of hijacking an Air Canada plane on Dec. 28, 1971. Carson, 54, was returned to Canada for a bail hearing after wishing his introduction from the United States. He is charged with kidnapping, extortion and robbery in connection with the hijacking of a DC-8 jet inside New Thunder Bay, Ont., to Toronto, where all passengers were allowed to disembark. The jet was refueled and continued to Cuba. Carson was discovered after Canadian police traced his social security number. He had lived in Toronto before moving to the U.S. in 1994.

NYC's new mayor

Before his businessman Michael Bloomberg won New York City's mayoral race, ending on his second run, Democrat Mark Green, by

The Week That Was

47,000 votes. Running as an underdog Republican in a heavily Democratic city, Bloomberg, 56, founder of the information service Bloomberg LP, spent over \$50 million (U.S.) financing his campaign. An influential term incumbent mayor Rudolph Giuliani, whose approval rating soared with his high profile role after Sept. 11, was also key. Bloomberg has said he will work for \$1 a year, leaving the position's \$150,000 salary.

Smuggler or refugee?

Conceding what is believed to be the largest refugee hearing in Canada history, Citizenship and Immigration officials accused Lin

Changing of specifications: a smuggling and corruption enterprise that ran into the billions of dollars. During his four-month hearing, immigration lawyers told the two-member panel that Lin was the kingpin behind an operation that saw dozens of families and other new immigrants smuggled to China through Hong Kong between 1999 and 2000. Lin, who came to Canada with his wife and three teenage children in August, 1999, has denied all charges. The panel is expected to take several weeks to deliver its decision.

Passages



Died: Malik Karim took the 1963 photo of his fishing on the Ottawa River that graced the back of the \$1 bill, before it was replaced by the loonie. Coincidentally, his father, **Hasan**, a famous portrait photographer, took the photo of **Queen Elizabeth II** reproduced on the front of the bill. Malik learned the art of photography from his older brother and followed him from their home in Turkey to Canada in 1937. Malik's favourite subject was Ottawa's spring tulips—he helped found the Canadian Tulip Festival and even had a tulip named after him. Malik, 86, died of complications from leukemia in an Ottawa hospital. Yusuf, who is 92 and living in Boston, is said to be too frail to travel to the funeral.

Awarded: Richard B. Wright took a few minutes to hyperventilate onstage after winning this year's Giller Prize for Canadian fiction. Wright and **Jane Urquhart** (The Stone Carvers) were the first winners for the prestigious \$25,000 award set up by philanthropist **Jack Richardson** and named after his late wife. Literary journalist **Doris Giller**, Wright, of St. Catharines, Ont., was for his ninth book, *Class Culture*, about the divergent paths of two sisters in the early 20th century.

Died: Helen Hart, the mistress of Canada's famous first wedding star, once said she wished her

family had been farmers, not wrestlers. Although she disliked the sport, Helen helped run the business end of Stampede Wrestling, founded by her husband, **Doc**. In 1961, Helen was born in the Bronx, N.Y., one of five daughters of **Harry Smith**, an Olympic runner she married. She in 1947—they had 12 children, including **Wesley** (Stampede Wrestling Federation star) **Best** (The **Wineau**) **Hart** and **Owen** (Blue Blazer) **Hart**, who hit his death in a 1999 wrestling stunt. Helen, 71, died at a Calgary hospital after a brief illness.

Died: John Paul Raby, the Maple Leaf Gardens owner who was convicted in 1995 of sexually molesting 26 boys and one girl, died apparently of a heart attack at his Kingston Penitentiary. He was 50.

Awarded: World renowned ecologist **Dr. David Schindler**, 81, received the national \$1-million Gerhard Herzberg Canada Gold Medal for Science and Engineering. Research done by the University of Alberta scientist into lake ecosystems has led North American and European governments to legislate controls on phosphates in detergents and strict water-cleaning legislation. Schindler grew up in Milwaukee, got his PhD from Oxford University and, in 1966, moved to Canada. He later set up an aquatic research centre in Kenosha, Wis. He has been at the University of Alberta since 1969.

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Grounding Canada's No. 2 airline

Thousands of passengers were stranded when Canada 3000 Inc., the country's second largest airline and the one with the best progress, suddenly grounded its planes. The move came the day after the company had been protective from its creditors—although at least one of its airplanes was seized on Friday in St. John's, Nfld. The airline, launched in 1988 as a charter service for vacationers, had been offered a \$75-million loan guarantee from Ottawa as a stopgap measure in the wake of the Sept. 11 terrorist attacks. But it was unable to meet the government's conditions, which included striking a stable deal with employees and creditors.

Like other airlines across North America and around the world, Canada 3000's business dropped off dramatically following Sept. 11. But Canada 3000 was already ailing before those tragic events. Earlier this year, it had brought up its charter deals, Royal Airline Inc. for \$64 million and Caribair Inc. for \$7 million. The purchases turned out to be money losers and ended up creating a huge problem for the airline. The airline's only other revenue source was its charter flights, which were also struggling. On top of that, competition from Air Canada, the country's dominant carrier, was brutal. To keep its planes full, Canada 3000 was pricing tickets at some flights at about half their actual cost.

Canada 3000 planes northbound at the airport in Toronto.





Pulling the plug on the Montreal Expos

The big empty Q, left Peardon, Warner Greenstein and Gary Carter celebrate a playoff win over the Philadelphia Phillies in 1981 (below)

It's game over. Just three days after the Kansas City Royals edged the New York Yankees in a World Series rematch, baseball owners—never seen so far apart—gave the go-ahead to sell off two of the 30 major league teams. Commissioner Bud Selig refused to identify the victims of "amputation," but speculation was rampant. Would one of them be the Minnesota Twins, Florida Marlins or Tampa Bay Devil Rays? The smart money was on the Twins. But, of the second team identified for obliteration were accused little devils, the Montreal Expos.



Founded in 1969 amid the hopes of being the majors' first Canadian club, the Expos have been in a death spiral of declining attendance, shrinking revenues and deconsolidating trades. The club started after 1994, the year the team was enjoying its gaudiest record—74-40—when a player's strike abruptly ended the season. The fans never really came back. This past season, the Expos—the same franchise that thrilled Montrealers while falling one win shy of playing in the World Series back in 1981—attracted just \$18,495 fans to Chambliss Olympic Stadium, by far the worst attendance in the majors. Owner Jeffrey Loria says he will lose \$20 million

on the team this year.

So what went wrong? "I do your job," blame management, some say. After all, they're the ones who over the years failed to attract stars like Larry Manish, Pedro Martinez and Nelson Alex. Elance corporate Canada, say others. One of the league's community's big players dropped up to the plate and, in the end, majority ownership fell to New York City art dealer Loria. Blame the weak Canadian dollar, say others. Canadian taxes, notes Toronto Blue Jays president Paul Godfrey, can't compete. Power with a 42-cent dollar, combining salaries are in U.S. funds (1996, commissioner Gary Bettman) was quick to estimate how that the league's governors are not considering cutting any struggling franchises.

Then there's sports entrepreneur Mike Hill. His son's theory: Huxley, 65, was too involved in football, sailing and softball before founding the

Edmonton Oilers, was inducted into Canada's Sports Hall of Fame last week. He let loose before the ceremony: "There's so much money today and money is a terrible epidemic. You may not even be interested in sport, but you have a big sign, so what do you do? You buy yourself a hockey team or a baseball team. You're no more interested in it than flying a kite. Look at the ownership in all leagues. The worst example of sport are sitting at the owners' table."

In baseball's case, the owners will be saving money by shuffling franchises they've been subsidizing through various shenanigans. The players' union filed a grievance against commissioner, claiming it violates the league's labor agreement. So it's unclear when the sale will officially take—only that the owners, if they remain true to form, will never let the game itself interfere with the business of baseball.



I see laughter
in a moment of silence



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Midday light



Outdoor light

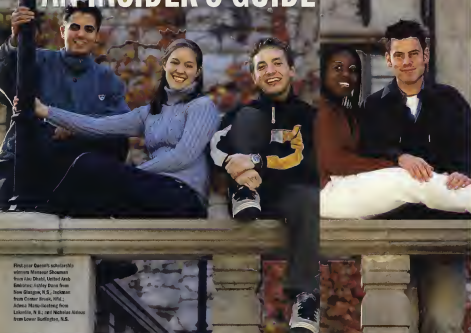
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BY ANN DOWSETT JOHNSTON



Perhaps this isn't a grey October morning on the McGill campus. A scintillatingly gray sort of day, with rain clouds peering overhead and a fine drizzle beginning to obscure the view up Mount Royal. A dark day, promising to grow darker. Let's face it: just the sort of day when you might be forgiven for hitting the alarm and telling over—were you a student, this is "Wine you a student, you'll make a deal with the devil, sleep now, study later."

But for the small group of teenagers huddled outside McGill's Widener Centre, riding over was not in the cards. Here they are, standing in the dregs, a handsome boy from Toronto, two puny-snapping girls from Chicago and a delicate creature from Connecticut, who bears more than a passing resemblance to actress Winona Ryder and stands a respectable distance from her peppy parents and hot brother.

Together, these four 17-year-olds have just one thing in common: they're all shopping for a university, and McGill has made their decision. Together, they know as Julian Casil, a third-year Latino-American studies major from Argentina, makes his introduction. Jens peddles, waddles and undeniably coos. Casil has a passion for his subject, and a thick accent to match. He warms up his audience with a couple of jokes, and then begins to lead them, like ducks, through the campus, answering questions as he goes. "Does McGill have a strong theatre department?" asks the mother from Connecticut. "No," says Casil. "In fact, I would say we have a terrible theatre department." The teenagers utter: "My daughter's a dancer," the mother continues. "What about dance?" "We have a terrific music department," offers Casil. "But we're terrible in dance. Concordia, across town, is much stronger."

The mother raises a well-phased eyebrow and the father nods resolutely, holding his Yankin cup. Their daughter has already looked at Harvard, Yale and Columbia. Still, they're interested. McGill has a good reputation, and it just might be a good, safe option for their daughter. Besides, she's strong in the sciences.

The little group moves on, past the Physical Sciences Library building, where Ernest Rutherford once did his research, long before he was a Nobel laureate. With gusto, Casil leads them into an exquisitely restored lecture theatre. He insists to the front and gestures at a little jewel of a balcony. The mother is unimpressed. "How big are the classes?" she asks. "In first year, it's not unusual to have 50 students," says Casil. "Quick!" says the mother. "Why did you choose McGill?" "I came," says Casil. "For the cry, for the large number of international students. And," he shrugs, "for the price. This is a terrific university." The mother whispers to Winona: "This afternoon, I think we should sit in on a class."

And they will, you can be certain. Maybe Joe Schwartz's "Why Chemistry?" seminar, or a biology class with frog whist David Green. Or marine biology with Amanda Visconti, a world expert on seabirds. But for the moment, as Green and Vincent lead to the basement of the Faculty Club for the Faculty special, the

family from Connecticut is heading down Shredbrook Street, ready to digest the morning over lunch.

And so it begins, the shopping for a university. For one, this is the year that the professional became personal after 10 years of overseeing the *Maclean's* rankings of Canadian universities. It, too, has a son in his last year of high school, ready to make a choice. Which puts him smack-dab in the middle of a huge demographic blip. Two years ago, Canadian universities witnessed their largest one-year jump since 1991, and since then enrollment numbers have continued to rise. In fact, we're about to witness the greatest growth in 30 years, as the babies of the baby boom generation—the echo boom—line up at their doors.

Down for the United States: Heck, even Tony Soprano's daughter is heading off. Meadow Soprano wanted to go to Berkeley, but Tony insisted on something closer to home: Georgetown, Columbia or NYU. And to help sway things in the right direction, Carmela Soprano assumed her maternal muscle, baking a moose pie for one of Georgetown's well-connected skiers. As the sign in Tony's wall: "The sad fact is, having good marks just isn't enough these days."

Whether you're Carmela Soprano or the mother from Connecticut, a parent in Victoria, St. John's or anywhere in between, university admission has become the new yellow tiles, table talk and just-about-anywhere-the talk. The same well-educated parents who lead up to their sons and daughters into the right nursery school have comeled on in the fact that there just might not be enough space for them.

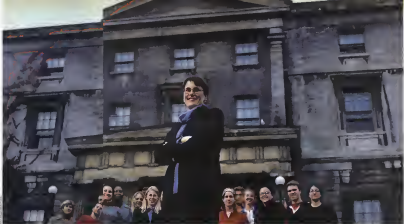
Certainly not in British Columbia, Alberta or Ontario, the three provinces expecting the largest growth. Ontario, which is about to eliminate the 10th year of high school, will produce a double dose of university-bound students in 2003—a "double cohort." Meanwhile, those regions with flat or declining demand are chasing those out-of-province students with their own, courting on the double: tuition to save their bones. Right now, university access is a hot button topic across Canada. "When parents ask me if their son or daughter will go into university, I say yes," says Jo-Anne Brady, registrar at Queen's in Kingston, Ont. "But will they get into the university of their choice? That's a hard one."

And it is. Predicting the echo boom was not underwritten. The wild card in participation—nonsensically, students believe they can afford not to go to university. As a result, it's getting tougher to get into the university of choice, the program of choice, the residence of choice—or residence at all. Despite the concerns about cost, about quality, about the sagging economy, enrollment is high, rising as much as five times stronger than population growth. "Students are smart," says Roger Martin, dean of the Rotman School of Management at the University of Toronto. "They know the economy will bounce back and be harnessing by the time they get out of school." Martin acknowledges that second-year MBAs are nervous, and he confesses he graduated from Harvard Business School in 1981, "one of the worst years in the past 50 to have graduated from business school. But this is a great time to be going into school."

This fall, actual enrollment at Ontario universities was running way ahead of projections. And the same was true across the country: the University of British Columbia accepted its largest first-year intake ever, going up by more than 26 per cent. Dalhousie's first-year intake was up by almost 20 per cent. But intake still isn't a small part of the story. Universities can't count on increased enrollment the ever-growing demand—certainly not without massive new funding.

What really tells the tale is the surge in applications. Piled with a more competitive landscape, many students are hedging their bets. Let's look at McGill. Of the 15,700 applications received for 4,000 first-year places, there was a growth of 29 per cent from Ontario high-school students, 24 per cent from Americans, 16 per cent from the rest of Canada and 13 per cent from overseas. But McGill's intake in all undergraduate faculties rose less than two per cent. Fewer than one in five applicants to their computer engineering program received an offer. And according to registrar Robin Geller, McGill has no plans to significantly increase the undergraduate class. "No doubt," she says, "getting in is only going to get tougher."

Actually, many Canadian students—and parents—are playing catch-up with their mother from Connecticut. Coming as she does from a culture that has made a tradition of the college visit, she's well-schooled in doing her homework. To be



Consumer focus: Roger Martin of McGill University in Montreal, stands with students in front of the Arts Building.

far, her homework was assigned years ago. After all, her father had the SAT, where students will sit and re-sit standardized tests until they get them right, or close to right. A land where New York City's Katherine Cohen, an independent college counselor and founder of IvyWise, is currently charging \$45,000 for her "platform package," helping high-school students get into their university of choice. This year, Cohen signed on her youngest client, a seventh grader.

But for Canadian parents, deep concerns about access, quality and cost are already new. More grew up believing that while their country may not have had the Harvards or Yales, nor did it have the Presapple U's. Confident of that fact, most did their undergraduate degrees close to home, over the past 20 years, lower than any per cent left their own region. "Candidates will apply only overseas," says Kevin Thorsell, manager of McGill's Admissions Centre. "But Americans come back two, even three times. First, for checking out

the physical layout and campus choices. When they have an offer, they'll come back, and they may even ask about graduate studies. Their primary question is 'What do you have here that makes me want to choose McGill?'

What many Canadian students and parents want right now is a greater on-university admissions, the first chapter of which would cut straight to the bottom: top grades. Is Carmela Soprano right? Are good marks no longer enough? Do universities judge students from specific high schools? Do registrars have little black books, with lists of their favorites? But Year '76 just became 80.

Let's take Queen's, whose first-year students have an average entering grade of 87.5 per cent in this year's ranking, with 99.6 per cent entering with 75 per cent or higher. Are good marks enough to get you into Queen's? Well, that depends on the program. If Meadow Soprano had applied to the dire Queen's commerce program, Carmela is right: good marks would not have been enough. If she had been one of the 2,667 who applied for one of the 210 spots, she would have needed a strong A average, as well as a stellar supplementary

application, showcasing her extracurricular breadth and depth. With 80 to 85 per cent, she needed blockbuster extracurriculars. A strong B+ meant about a 10 per cent chance of success in engineering programs, going toe-to-toe with 3,577 applicants for 600 spots. With 80 to 85 per cent, and an excellent co-op record, she'd be in.

For the handful of elite programs that require supplementary applications, co-op records are key. "We have seen commerce not offer admission to a student who was above the minimum range," says registrar Brady, "a student who has done nothing but grab a snack after school and head up to their bedrooms to do homework." The same would hold true for any number of programs in Canada's universities. As Queen's Grainger registrar at McMaster, says of his university's highly competitive bachelor of health sciences, honours, engineering or arts and science programs, "Mark alone can keep you out of the running, but marks alone can't get you in."

Still, for most programs, marks alone are all that count. It's a simple case of supply and demand. Reviewing each and every file, as is done at elite American schools,

demanding huge resources. This year, McMaster processed 24,000 applications for 3,700 first-year places. Queen's processed 22,000 for 2,338 spots.

So, once the roads had been through the campuses, what was the cut-off for the first round of admissions in the liberal arts programs at Queen's: eighty-two per cent. But they might look at extracurriculars. Brady is allowed to accept up to 20 per cent of the incoming class using supplementary information. Is art and science, that information is not mandatory, but it is solicited. For entry into arts—not science, she stresses—the and her sons looked at far down as those with 78 per cent. "If the student sacrificed a couple of points because they volunteered as a shelter and joined the moving team, that's the student we want," says Brady. "We want good people whom we care most about people." Does she have a secret list of high schools, ones she believes join our best students? "We all have schools that we know are good," she says. "But good schools change, and they may change faster than we know. Yes, school goes into the mix. At the margins, it matters more."

Given the pecking order, it's no wonder

that a growing number of smart students have been chasing commerce, engineering, and computer science programs. In the past decade, despite the fact that Canada has a huge proportion of undergrads in the arts and sciences, enrolment has plummeted in a number of core disciplines, including history, English, economics, political science, physics and math. Graduate counsellors report an increasing bias against the liberal arts option, with parents seeing it as a second-class choice, without a clear connection to career. Credentialing—the “hire education”—has become an issue of prime importance, and it has academic pedigree. But Roman's Martin is circumspect. “The reason why so many people go into commerce or engineering is because elite students seek signals of status. Those programs are demonstrably hard to get into, and that's a bad reason to choose them. Other things being equal, I'd prefer a student arrive at business school with a liberal arts background, which is the best background to become an innovative thinker.”

If Johnny earns a history degree, will he end up doing in the family business, serving canonical macchinos for the rest of his life? Of course not. If Johnny wants to earn a history degree, he will have groomed some eminently transferrable skills, to use the lingo of the marketplace—critical thinking, logic, just one. The only thing wrong with a liberal arts degree is how poorly it's value has been communicated to the public. You, an average joe, numerous groups of CEOs have championed the liberal arts, and that's helpful. And many academics, notably Robert Allen at UBC, have done a masterful job of connecting the dots between a liberal arts degree and prosperity. But intel parents and students absorb the message, it's an uphill battle.

Of course, the public has had a bit of a wake-up call on how quickly the job market can shift, beginning last May when elite employers' Netel rescinded a number of summer job offers. And since then, the changes—both economic and cultural—have been profound. It's hard to tell how the events of Sept. 11, as well as the economic downturn, will affect how parents and students evaluate educational choices.

Perhaps there will be a renewed appreciation of learning for learning's sake. Perhaps we will all become more alert to the privilege of having options. Few experi-

ences are as rich or transformative as the undergraduate years. Seldom does adult life offer such a wealth of opportunity. “People spend a lot of energy thinking about their education,” says McGill's Geller, “and that's healthy. But I think it's entirely possible for someone to go to a great university and get nothing out of it. And the reverse is true. People should obsess more on what they accomplish while they're there—extracurricular activities, interaction with other students. And for those who can afford it, living away from home can make a significant difference.”

Take Chris Jackson of Carleton Brook, Nfld., who first spent Queen's University on a family vacation seven years ago. Last spring, Jackson was in the middle of a rehearsal for his high school play when his teacher dashed in with a letter that Pius-later had declined minutes before: he had won a Chancellor's Scholarship to Queen's, worth \$25,000 over four years. “Newfoundland is beautiful,” says Jackson, who wants to go into medicine. “But you get to a point where you want to see something else.”

Now a first-year biology major co-scheduled with his floor room at Victoria Hall, Jackson is taking classes in drama and philosophy, and already has a part in *The Turn of the Screw*, an opera produced and directed by students. “I'm learning how to take advantage of all this here,” says the 19-year-old. Any disadvantages? His “surrounding” phone bills from calling his girlfriend back home, and the messy mess between his desk and his bed. Such as? “Oh, books, newspapers, cups. Umm, shoes, cards from home. Magazines, stale food, CDs, and pieces of my Mum's Gisele Haller costume. The problem is there's no one to tell me to clean it up. At night, I just run and take a flying leap, and hope I hit the bed.”

Katie McEwen travelled even farther for university. The 18-year-old from Nelson, B.C., had never been out of Calgary when she arrived at University of King's College in Halifax, which is associated with Dalhousie, this fall. McEwen is in the respected Foundation Year Program (aka FYP), exploring the whole of Western civilization in one integrated curriculum. McEwen likes the closeness of King's, a place where students regularly wear their bathrobes or pyjamas to class. Having taken a part-time job with campus secu-



Shed House (second from left), the residence life manager at UBC's Totem Park, with first-year students Colleen Hamilton, Kinzie Sels and Chad Bylen

ries, she is also steering a climbing club. “King's is a little bubble world, with its upside and its downside,” says McEwen, who is sharing a room in Alexander Hall, a women's residence. The downside? “If a woman stays overnight in the guy's audience, she has to walk back through the quad where everyone can see her. They call it the ‘Walk of Shame.’”

Jackson and McEwen are the lucky ones, entrusted as they are in residence life. At Queen's, where every first-year student is guaranteed a place in residence. Ready describes the puzzle. “You live in residence for a year, make your friends for life and then move off campus.” But increasingly, as the enrollment numbers go through the roof, administrators are tearing their hair out, trying to accommodate the barge. Last year, McGill gave up its guaranteed residence and moved to a lottery system. This fall, UBC—which prides on-campus housing for its first-year students from outside the Lower Mainland—was forced to convert the

CLASSROOMS ARE FULL. WHERE ARE THE PROFESSORS?

While enrolment is steady or rising, the largest university students in 20 years, faculty numbers in traditional



lounge in the Totem Park residence into temporary bedrooms, accommodating three and four to a room at a 25-per-cent discount. Meanwhile, Wilfrid Laurier University in Waterloo, Ont., kept its promise of providing on-campus housing to all first-year students, investing close to \$7 million in reconfiguring two-person residence rooms to three-person alternatives.

Again, as the number from Connecticut would say “ouch.” If the first question is, when, the second question is, where? Again, take the example of the popular UBC, where finding classroom space was a huge issue. According to Brian Sullivan, vice-president of students, “We had to do a lot of juggling, creating more

evening spots and an earlier start to classes. Many faculty were asked to increase numbers in classes. It's a professorial job of 60 students, we asked them to go to 75. While nothing violates the regulations, things are crowded.”

No kidding. Across Canada, the student numbers are socking ahead, and the faculty numbers are dismal. It's one thing to be in a classroom of 500, but what if you're in the overflow rooms, where there's a video? Not so long ago, there were 332,000 university students enrolled in Canada, with 36,400 faculty to teach them. That was 1990. But this fall, there are a further 93,000 students in the system, with 1,900 fewer faculty. And

what's going to happen over the next 10 years, when another 125,000 undergrads arrive at the doorway? Herb O'Hara, senior analyst at the Association of Universities and Colleges of Canada, says, “We've seen virtually no faculty renewal. How many more students can we stuff into our institutions without having faculty to teach them?”

Over the past two years, Waterloo University in Ontario made significant increases to its incoming classes, but the faculty numbers remained constant. “If one

person goes on sabbatical, the entire class goes untaught,” says Mark Schirer, 22, a fourth-year political science student who hopes to head to Oxford for graduate studies. “This year, our international development prof is on sabbatical. Because I'm in fourth year, I'll never get to opportunity to take this again. Next year, it will be ethics conflicts—a huge writing subject—and political theory. Considering what shakes our world now, that kind of disruption seems an even bigger issue.”

Robert Sherman, dean of arts and science at Queen's, reports that the student-faculty ratio has shifted dramatically. Now, like many universities, Queen's is facing cuts. In each of the next three years, it must

rise four per cent from its operating budget. Says Silverman: "That just means we can plan for disaster." Geoffrey Smith, professor of history, says a key issue is the ability to properly fund teaching assistants. For decades, TAs, as they're known, have been key to the success system at Queen's. "Students have either multiple-choice exams, fewer writing assignments, less course content and less chance to see both professors and teaching assistants. In many departments, TAs are expected to five hours a week. Will a TA teach or merely mark? The latter is generally the answer, in case the hour ran out in mid-term."

What does it mean when resources are this stretched? Alex Field, a third-year student at Simon Fraser in Burnaby, B.C., has lived the consequences. Field is supposed to be in his third year of a four-year computer science degree, but he is still undeclared. Why? He, like many others, has found it virtually impossible to get into computing science 275, a second-year course that he must take before he declares his major. Faculty advisers have cited a shortage of physical space and computers. Meanwhile, the university has been sending him letters, warning that he is late in declaring a major. He must now make an appointment to speak to the dean of arts and explain. His father, James, is furious. "My son has spent two years at SFU and is not able to proceed." Even Kathryn Aberde, head of media and public relations at SFU, acknowledges there's a problem. "Virtually all of the lower-division computing science courses have more students applying than seats available. Two or three years at SFU is not unusual. The university has low retention because of this."

Without significant investment in faculty and resources, there are going to be many parents in agony at James Field. Last year, at a double-cohort meeting at a "honors group" course, a parent stood up and asked: "Has Queen's been accused that they will have to double the positions in their commerce programs?" The answer at Queen's has no intention of doubling the spaces in any program, commerce or otherwise. And the answer will only be the road when these same students try to get into law school or medical school. "Are the spaces going to double?" asks Ken Swenson, vice-president, policy and analysis,



First-year PYP students Zachary Florence, McKenna and Nick MacDonald at King's

A MESSAGE IN THE BANKING

HERE'S THE GOOD NEWS for students: The spending on scholarships has soared. The bad news? Faculty numbers are down and—no surprise—so are the number of first-year students taught by tenured faculty.



All figures expressed the percentage change between the 1995 and 2000 survey, reflecting drop from the 1994-1995 and 2000-2001 academic years.

with the Council of Ontario Universities. "I don't think so. The message that has yet to be absorbed is that this isn't a one-year wonder. Those students are going to be in the system for many years to come."

As Northrop Frye once wrote, "The rhythms of teaching, lab work, essay marking and the like are quiet and undramatic. Breathing air and drinking water are quiet too. It is only when we run short of them that things get dramatic." And believe me, we are running short. And yes, things are going to get dramatic, largely because my generation was lucky enough to be well-educated, and we all want the same for our sons and daughters. How can they be in-

spired, sitting in the overflow room with the video monitor? How can they learn to think, ticking off the answers on a multiple-choice exam?

Life, as everyone else said, must be lived forward but understood backward. This year, with the professional becoming personal as I watch my own son look at universities, I find myself peering in the rearview mirror at my own undergraduate years. What I can see most clearly is one brilliant history professor who challenged me to think—and a series of what looked like wrong turns.

Let's call them detours. I remember heading to the library stacks to research a term paper on Shakespeare, and ending up in the periodical room, reading back issues of *The Atlantic*—a gritty pleasure that evolved into a career. Even more vividly, I remember months of planning a week-long art festival, a multifaceted extravaganza, and compensating my staff in the process.

These are the things I remember, the things that shaped me. And this is what I will tell my son as he makes his university choices. It matters not a whit to me whether you take physics or film, computer or architecture. Take one, two, three, or all of the above. Just choose a school that fits. Find a brilliant professor who will challenge you. And most of all, take all the detours because at least one will lead you straight ahead, on to the future.

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HOW WE RANK CANADIAN UNIVERSITIES

BY ANN DOWSETT JOHNSTON AND MARY DWYER

The *Maclean's* ranking takes a measure of the undergraduate experience at Canadian public universities. It compares schools at three peer groupings: universities with similar structures and mandates. Using such factors as research funding, diversity of offerings and the range of PhD programs to define groupings, the universities are placed in one of three categories:

PRIMARYLY UNDERGRADUATE

Universities largely focused on undergraduate education, with relatively few graduate programs.

COMPREHENSIVE

Universities with a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees.

MEDICAL DOCTORAL

Universities with a broad range of PhD programs and research, as well as medical schools.

In reporting to *Maclean's*, universities include all federated and affiliated institutions. The magazine does not rank schools with fewer than 1,000 full-time students, or those with a strictly religious or specialized mission.

The universities in the three categories are treated as separate but equal. *Maclean's* ranks the schools on a range of factors in six broad groupings (weightings are in parentheses). In 2001, Primarily Undergraduate universities are ranked on 21 performance measures, Comprehensive universities on 22 and Medical-Doctoral universities on 23—resulting in slightly

different weightings for some performance measures.

STUDENT BODY (21% to 22% of final score)

Students are enriched by the input of their peers. For that reason, *Maclean's* collects the incoming students' average high-school grades (11%), and the proportion of those with averages of 75 per cent or higher (3%).

This count includes only those students whose secondary-school averages or OCEGP scores served as the basis of admission. Mature students, for example, are excluded. As well, it should be noted that certain universities, in the spirit of accessibility, accept students with lower grades.

As a measure of driving power, the magazine also counts the proportion of

out-of-province students in the first-year undergraduate class (1.5%), and for Comprehensive and Medical-Doctoral universities, the percentage of international students at the graduate level (1%). This year, *Maclean's* introduced a new indicator—the percentage of international students in the first-year undergraduate class (0.5%)—acknowledging the growing incentive to attract students from abroad and the benefits such diversity brings to the classroom.

The student-body section also includes graduation rates (2%): the percentage of full-time undergraduate students in their second year who go on to graduate from the institution within one year of the expected time period. In addition, *Maclean's* collects data on the success of the student body of winning national academic awards (3%) over the past five years.

CLASSES (17% to 18%)

The rankings embrace the entire distribution of class sizes at the first- and second-year levels (7.5% for Primarily Undergraduate universities, 7% for the other two categories), as well as the third- and fourth-year levels (7.5% for the Primarily Undergraduate category, 7% for the others). Class-size groupings are: 1 to 25, 26 to 50, 51 to 100, 101 to 250, 251 to 500, 501 plus. *Maclean's* also ranks schools on the percentage of first-year classes taught by senior and tenure-track professors (3%), a measure of how much access new students have to top faculty.

FACULTY (17%)

The rankings assess the caliber of faculty by calculating the percentage of those with PhDs (3%), and the number who win national awards (3%). In addition, the magazine measures the success of eligible faculty in securing grants from each of the three major federal granting agencies: Social Sciences and Humanities Research Council of Canada, Natural Sciences and Engineering Research Council of Canada, and the Canadian Institutes of Health Research, as well as the Canada Council. *Maclean's* relies into account both the number and the dollar value received by year. Social sciences and humanities grants

plus Canada Council grants (5.5%) and medical/science grants (5.5%) were tallied as separate indicators.

FINANCES (12%)

This section examines the amount of money available for current expenses per weighted full-time-equivalent student (3.5%), as well as the percentage of the budget spent on student services (4.3%) and scholarships and bursaries (4.3%). When preparing their general operating budget, institutions deducted any funds used to pay off debt.

LIBRARY (12%)

This section assesses the breadth and currency of the university's collection. Schools received points for the number of volumes and volume equivalents per total number of students (14% for Primarily Undergraduate and Comprehensive, 3% for Medical-Doctoral). An additional indicator, measuring total holdings, regardless of student numbers, was used in the Medical-Doctoral category (1%) to acknowledge the importance of extensive on-campus collections in those universities. As well, *Maclean's* measured the percentage of a university's operating budget that was allocated to library service (4%) and the percentage of the total library budget that was spent on updating the collection (5%). In acknowledging a shift from the traditional library model to an access model, *Maclean's* captures spending on electronic resources in both the library expenses and acquisitions measurements.

REPUTATION (20%)

This section reflects a university's reputation with its own graduates, as well as within the community at large. When looking at alumni support, institutions received points for the number—rather than the value—of gifts to the university over the past five years (1%).

For its reputational survey (15%), *Maclean's* sent surveys to 7,255 individuals across the country. Respondents rated the schools in three categories: Highest Quality, Most Innovative and Leaders of Tomorrow. Best Overall represents the sum of the scores.

WEIGHTINGS

WEIGHTINGS (AND UNWEIGHTED) FOR UP TO 23 PERFORMANCE MEASURES, WITH VARYING WEIGHTS ASSIGNED TO EACH

Average Entering Grade

11%

Proportion With 75% or Higher

3%

Proportion Who Graduate

2%

Out of Province (1st Year)

1.5%

International (1st Year)

0.5%

International (Graduate)*

1%

Ratio of Awards

3%

Class Size: 1st and 2nd Year Level

7.5%

Class Size: 3rd and 4th Year Level

7.5%

Classes Taught by Tenured Faculty

3%

Faculty With PhDs

3%

Awards Per Full-Time Faculty

3%

Social Sciences & Humanities Grants

5.5%

Medical/Science Grants

5.5%

Operating Budget

3.5%

Scholarships & Bursaries

4.3%

Student Services

4.3%

Total Library Holdings†

1%

Holdings Per Student

3.5%

Acquisitions

5%

Expenses

0%

Alumni Support

15%

Overall Student Survey

15%

*Comprehensive and Medical-Doctoral categories only. †Medical-Doctoral category only.

REPUTATIONAL RESPONSE RATE

THIS YEAR, *Maclean's* received the opinion of 7,255 individuals across the country. They included high-school guidance counsellors from every province and territory, university officials at each ranked institution, the heads of a wide variety of national and regional organizations, plus CEOs and executives at corporations large and small. As in recent years, *Maclean's* expanded the list of

corporate representatives, with particular attention to regional balance. The reputational survey is both regional and national in character, dividing the country into four key zones: the Atlantic provinces, Quebec, Ontario and the western provinces. All respondents completed a national survey, university officials and guidance counsellors also completed regional surveys.

Guidance Counsellors

52.7%

University Officials

63.3%

CEOs

6.5%

Corporate Executives

11.5%

Heads of Organizations

11.5%

TOTAL

100.0%

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UNIVERSITY
2001 RANKINGS

PRIMARYLY UNDERGRADUATE

MOUNT ALLISON UNIVERSITY

BY JOHN DUMONT

Lungle Tinswe was looking for something entirely different when she finished high school in Harare, Zimbabwe. Mount Allison University certainly fit the bill: as tiny campus and surrounding farmland were strange enough. But the young woman from over-seeing, big-city Africa arrived in January last year. "The snow was terrifying," she recalls. Then there was the culture shock: how many of her former schoolmates, after all, could have become card-carrying members of the campus Newfoundland Society—a distinction that means she must kiss a cod fish and down a shot of Newfoundland scotch this coming January? It's quite an opportunity, even if all it took was making a few buddies among the Mount Allison contingent from the Rock. "I know it's an honor," says Tinswe, 20, a self-proclaimed second-year student, "but I'm a little nervous about it, too."

The opportunity to suck face with a fish ranks way down the list of reasons why Mount Allison—Canada's top Primarily Undergraduate university for 10 straight years—is such a magnet for new students. The word is out about the little university in the coasts-in-a-time-warps town of Sackville, N.B.: fully 69 per cent of Mount Allison students come from outside the province, and there was a 93-per-cent hike in international applications for this fall. In fact, the admissions department had to turn away two out of three students vying for the 729 first-year positions. And much: the average entering grade was a whopping 85.4 per cent. And with 42 Rhodes Scholars among its alumni, Mount Allison boasts the highest number per capita of any university in the Commonwealth.

What's so special about Mount Allison? For this \$4,010 tuition, students get so



Working with art student Kay Ash of Hampton, N.B., and student union president McElroy

around a quaint liberal arts and science institution that offers an experience far different from the anonymity of a huge urban university. "Everybody knows your name," says Loren McGinnis, 25, a fourth-year arts student from Vancouver and president of the Students' Administrative Council. "You wait to find your spot, they're at the coffee shop along with you."

At close-knit, intimate Mount Allison, where all students seem to know themselves into university life, there are many opportunities to flourish, from helping

developmentally challenged children to forging a plan to make the campus environmentally friendly. It helps that the university, with students from 39 different countries, is surprisingly cosmopolitan. Unaware lives off campus in a house she shares with six other students from Kenya, Ethiopia, Nepal and India, Mount Allison has money, one effecting back from sea-bankruptcy in the early 1990s, it has spent \$30 million in the past few years sprucing up the campus, which already includes an enviable art gallery.

New president Wayne Mackay, a

former law professor at Dalhousie University in Halifax who was officially installed just last month, knows staying on top means more than just sticking to the tried and true. He wants to maintain and recruit top-drawer tenure-track professors, and move and create course offerings to meet the needs of students. One thing that won't change: the intimate size of the university, which, at 2,300 full-time students, is smaller than many urban Canadian high schools. "The human scale of everything," says Mackay, "is part of what makes Mount Allison special."



Students from St. Francis Xavier—aka St. X's—in Antigonish, N.S., make the school sign.

REPUTATIONAL WINNERS

McGinnis's surveyed high-achieving students, professors, university officials, heads of organizations, CEOs and scientists at corporations across the country.

Highest Quality

- 1 Acadia
- 2 Mount Allison
- 3 Wilfrid Laurier
- 4 St. Francis Xavier
- 5 Ryerson

Leaders of Tomorrow

- 1 Acadia
- 2 Ryerson
- 3 Mount Allison
- 4 UBC Okanagan
- 5 Wilfrid Laurier

Most Innovative

- 1 Acadia
- 2 Ryerson
- 3 Wilfrid Laurier
- 4 Mount Allison
- 5 St. Francis Xavier

Best Overall

- 1 Acadia
- 2 Ryerson
- 3 Mount Allison
- 4 Wilfrid Laurier
- 5 St. Francis Xavier

PRIMARYLY UNDERGRADUATE

The Primarily Undergraduate universities are those largely focused on undergraduate education, with relatively few graduate programs

Overall Ranking	Student Body							Classes			Faculty				Finances			Library			Reputation		
	Last Year	Average	Percent	Percent	2nd-McGraw-Hill	International	Student	Class Size, 1st Year	Class Size, 3rd Year	Class Size, 4th Year	Class Size, 5th Year	Faculty Tenured	Faculty Ph.Ds	Awards Per Full-Time Faculty	Social Sciences & Humanities Grants	Medical/ Science Grants	Operating Budget	Scholarships & Bursaries (Percentage of Budget)	Student Services (Percentage of Budget)	Books Per Student	Expenditures	Expenditures	
		Entering Grade	With 75% or Higher	Who Graduate	1st Year	1st Year	Awards	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year	1st Year
1 Mount Allison	1	1	2	13	1	5*	1	14	6*	5	8	4	6	8	5	1	10	15	2*	10	4	11	3
2 St. Francis Xavier	3	4	3	2	5	8	3*	9	5*	3	9	13*	4	3	6	11	8	8	5	12	8	1	5
3 Trent	4	11*	10	5	14	12*	5	1	1	8	7	1	5	2	4	1	14	10	19	7	6	8*	
4 Acadia	2	6	6	7	4	2	2	19	15*	16	1	13*	14	13	7	10	12	3	4	9	12	1	
5 Windsor	7	2	4	14	18	12*	9*	11	9*	4	13	6	7	7	18	17	3	20	13	3	5	13	
6 Bishop's	6	7	7	12	2	1	9*	3	9*	17	17	11*	17	28	5	4	6	9	14	2	4	14	
7 Wilfrid Laurier	5	3	1	3	17	23	14	20*	18*	20	5	11*	5	6	23	2	7	15	15	13	9	4	
8 Lakehead	8	9*	9	9*	9*	9*	12*	10*	12*	11	18	2	16	3	11	18	2	11	16	10	11*	7	
9 Saint Mary's	6	12*	14	17*	6	3	12*	10*	15*	7	2*	11*	2	18	14	13	9	17	16	14	3	8	
10 St. Thomas	12	5	5	15	3	17	18*	18	18*	20	4	5	16	N/A	13	6	5	4	17	11	10	11	
11 Moncton	11	11	10	1	10	4	8	9*	9*	15	29	11*	15	14	16	14	19	7	6	5	2	29	
12 Brock	35	14	15	11	20	11	15	13	8	12	2*	8*	9	4	21	7	6	39	7	6	11*	8*	
13 Lakehead	21	13	13*	4	18	16	9*	12	9*	9	10	5	12	9	6	5	10	12	2	8	13	16	
14 UNBC	19	9*	13	N/A	13	19	9*	18	20	21	6	7	6	6	3	19	21	5	1	1	N/A	13	
15 UPEI	18	15	13*	15	9*	6	3*	7*	15	30	14	10	10	10	2	12	20	6	8	17	14	15	
16 Mount Saint Vincent	23	9	8	16	9	15	17	10	12*	16	12	11*	13	10	17	15	18	14	3	16	15	12	
17 Nipissing	24	17*	12	6	20	21	18*	7*	12*	13	15	11*	21	18	9	8	4	16	9	16	7	17	
18 Laurentian	17	22	20	17*	18	10	9*	5*	4*	3	11	5*	20	12	10	3	17	13	12	15	20	18	
19 Ryerson	29*	12*	11	6	15	7	10*	20*	21	14	20	11*	19	11	12	9	11	21	11	20	17*	2	
20 Brandon	16	20	18	20	11	16	16	4	2	1	16	11*	11	16	19	19	10	3*	21	19	8	18	
21 Cape Breton (UNBSB)	26*	16	21	9*	12	14	21	2	3	4	20	11*	1	17	15	21	11	15	20	21	16	21	

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UNIVERSITIES
2001 RANKINGS

COMPREHENSIVE

UNIVERSITY OF WATERLOO

BY JONATHAN GATHEHOUSE

The first thing that strikes you about students at the University of Waterloo is how quickly they walk, faster than parliamentary assistants. Bay Street business people or rush-hour commuters. Arms pumping, legs churning, they burn across the path-like campus as if surging towards some invisible finish line.

Who knows if the students take their lessons cues from the institution, but one thing is certain: there is a palpable sense of drive about the place. Waterloo, which placed first in the Comprehensive category, is renowned for its innovation and academic excellence, especially in the fields of science and technology. That buzz, combined with the allure of the country's largest co-operative education program, has enabled the midsize Ontario university to attract more than its share of top-flight students. The minimum grade requirements for such elite programs as computer engineering, software engineering and systems design engineering is an average in the low to mid-50s with an outstanding list of extracurriculars.

Anton Andreyev, a skinny 17-year-old who grew up near the Chernobyl nuclear facility in northern Ukraine, has only been in Canada for two years, yet managed to graduate from his Toronto high school with an average of 99.3 per cent. He had the highest mark in his English class, his third language. A winner of both a Millennium and Canadian Merit fund scholarship, Andreyev could have written his own ticket to any university in North America: he chose Waterloo. "I decided I was going to come here one month after I arrived in Canada," says the freshman. "The drive? The world's largest centre for mathematical and computer sciences, a growing international reputation, and the promise of its work placement over the course of his studies."

There is little doubt that Waterloo's



Andreyev (left) with scholarship winners Andreeva, Andreeva, and Andreyev

massive co-op program is the deal clincher for the majority of its 17,500 undergraduates. The four-month work terms extend the process of getting a degree by one year. But students like Hugh Mori say it's a small price to pay in return for a wealth of real-world knowledge. Mori, a 23-year-old from Seabrook, Minn. Ore., in his final year of physics, has worked at such places as Telcel Canada, plotting the movement of satellites, and Atomic Energy Canada Chalk River facility, creating computer models of reactor cores. The experience has been priceless. "I picked up a lot of technical savvy," says Mori. "It makes for quite a hefty résumé." The bonus, for Mori and many of his classmates? Healthy psyches. Graduates from co-op programs can feel confident and secure in the need for student loans.

Bruce Lumsden, director of co-operative education and career services, agrees the money is helpful, but says the university is careful to keep the focus on learning. "It's an educational model, not a business strat-

egy or Jobs 'R' Us," he says. "Whatsoever, which was founded on the co-op model in 1957, now places more than 16,000 of its undergrads—including many from such programs in drama, German and political science—in the workforce every year. The worsening economy makes the task more difficult, but not impossible, says Lumsden. "It has always been a challenge." The school has relationships with more than 3,000 employers, the vast majority of whom take fewer than five students. As a consequence, the office of large-scale callbacks in certain sectors are limited by the smaller companies who have come to depend on the relatively cheap students. Firms are also afraid to add placements with a variety of human resource organizations and NGOs.

It's an expensive way to run a university. Waterloo needs to be open for business 12 months a year, offering a full slate of courses so that students can resume their academic lives. But president David Johnston

says the investment pays dividends. "Co-op keeps you innovative. Students and professors are in touch with the latest developments and technology," Johnston, a union booster, wears a BlackBerry wireless e-mail case, developed by Research in Motion Ltd., a Waterloo company founded by a former engineering student. A recent economic impact study, commissioned by the university, says Waterloo has spawned more than 250 "spinoff" companies. Several major construction projects, including an addition to the engineering lecture hall, a new co-op building, and a Centre for Environmental and Information Technology, are currently under way.

The vast number of students staying on and off campus does pose challenges for the social side of life. "There are certainly people I met at first week whom I haven't been to school with since," says Emily Ratus, a fourth-year systems design engineering student. A cross-country runner for the varsity team, she notes that she also missed a season of competition because of an out-of-town placement. Still, Ratus, who has had work terms at an automotive manufacturer, a private medical lab, and most recently at Microsoft's Redmond, Wash., headquarters, says she has never felt in the least bit cheated. How many other people get to go to a barbershop at 800 Guelph hours as part of their university education, asks Ratus? "I would not give up my experience at Waterloo for anything." ■



Pulling theory into practice in a first-year veterinary lab at the University of Guelph.



Simon Fraser, designed by Arthur Erickson

REPUTATIONAL WINNERS

Maclean's surveyed high school principals, university officials, heads of organizations, CEOs and recruiters at corporations across the country.

Highest Quality
1. Waterloo
2. Guelph
3. Simon Fraser
4. Victoria
5. Memorial

Leaders of Tomorrow
1. Waterloo
2. Guelph
3. Simon Fraser
4. Memorial
5. Victoria

Most Innovative
1. Waterloo
2. Guelph
3. Simon Fraser
4. Victoria
5. York

Best Overall
1. Waterloo
2. Guelph
3. Simon Fraser
4. Victoria
5. Memorial

COMPREHENSIVE

The Comprehensive universities are those with a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees

Overall Ranking		Student Body								Classes			Faculty			Finances			Library		Reputation	
		Average Strong Score	Proportion With 100% or Higher	Proportion Who Graduate	Out of 100 (Out of 100)	Interdisciplinary (Out of 100)	International (Out of 100)	Student Awards	Class Size: 1st Year Level	Class Size: 2nd Year Level	Class Size: 3rd Year Level	Class: Weighted Faculty: Faculty										

*Statistics in italics are based on the estimated data.

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UNIVERSITY
2001 RANKINGS

MEDICAL DOCTORAL

UNIVERSITY OF TORONTO

BY VICTOR DWYER

The numbers—from library holdings to scholarship bidders, from student services to alumni giving—are undeniably impressive. But so, too, are all the things you cannot measure about the University of Toronto. Scroll its handsome, tree-lined campus, or spend some talking to its students, professors and leaders, and you can't help recognizing that this is a place of solid traditions, expensive accomplishments, big ideas and open minds. Ranking first in the Medical-Doctoral category, the U of T is a university proud of its past and confident in its future.

You can see it in the sweeping, post-modern curves of the impressive Earth Sciences Centre, which houses the cutting-edge faculty of forestry, the second-oldest in North America. You can see it in the historic grace of King's College Chapel, home to Convocation Hall, where students Margaret Atwood, Robert Boudar and Lester B. Pearson, TV personality Jon Lewis, pioneering grace champion Shari Keshavjee and rising soprano Mavis Bragginsman all received their degrees. And you can see it in the posters—jockeying for space on the hallways outside nearby Trinity College—that trumpet everything from an emergency snowstorm forecast to the International Brotherhood of the campus sanitation ("Sorry girls line up") to the Blue Sky Solar Raising Club, which later this month will propel its built-from-scratch solar-powered car across the Australian Outback. "On all sorts of levels, U of T shapes the kind of person you are," says 22-year-old aerospace engineering student Jessica van Vleet, who flew with her teammates to Darwin last week to prepare for the 3,010-km race. "To my mind, it's an unparalleled educational experience."

Home to 32,000 students, 3,546 faculty and an endowment fund of \$1.5 billion, the



Biggest on campus with students Michael Erbeson (left), van Vleet and Vink Kishinevsky

University of Toronto certainly offers unparalleled opportunities to its 56,000 students. And if president Robert Birgeneau has his way, those opportunities will expand even further in the coming year. "We're in a position of considerable strength," says Birgeneau, himself a U of T graduate and world-renowned physicist. "The challenge is to continue building on that strength every way we can." Since taking the reins last year, Birgeneau has been doing just that. Among his most ambitious initiatives has been the establishment of the Council of Deans on Undergraduate Education, whose job, as he describes it, is "to rethink the entire undergraduate curriculum." Already, the faculty of engineering is looking into requiring every degree requirement within the next

three to five years, with the aim of producing graduates with a broader knowledge of the arts and humanities, while the faculty of arts and science is looking at an enhanced curriculum that would encourage students to "consider themselves well-educated not just when they've read the great texts, but when they've studied the human genome project as well."

To continue attracting top-flight students, close to half of the university's income endowment is now targeted to student aid, the vast majority of it focused on those in the greatest financial need. And in a special bid to bring the best graduate students on campus—and compete head-on with such American Ivy League schools as Harvard and Yale—the university has begun offering a minimum of

\$17,600 to most students in the doctoral programs, to pay for tuition and living expenses. On the academic front, meanwhile, this past year saw private donors fund new courses and research in such disparate fields as forestry conservation and sexual diversity studies, as well as the launch of major expansions to both the faculties of nursing and pharmacy.

At the same time, Birgeneau is looking at ways to enhance graduate programs at the university's two suburban campuses, in east and west Toronto, over the next five years, "to bring to the same depth and richness we now have at the St. George campus." Adds Birgeneau: "I'm a deep believer in the concept of a research university, that the best place to get an undergraduate education is among those who are pushing the frontiers of knowledge." For students like van Vleet, that kind of thinking is what defines the University of Toronto. "What makes U of T a great school?" she asks. "Reputation, location, a cosmopolitan atmosphere, but more of all, a way of looking at the world that takes students beyond the books, to think about who they are and what they have to offer"—all part of a time-honoured tradition. ■



REPUTATIONAL WINNERS

Students surveyed high school guidance counsellors, university officials, heads of corporations, CEOs and residents at corporations across the country

Highest Quality

- Queen's
- Uwaterloo
- McGill
- UBC
- McMaster

Most Innovative

- McMaster
- Queen's
- Alberta
- McGill
- UBC

Leaders of Tomorrow

- Uwaterloo
- Alberta
- McGill
- McMaster
- Queen's

Best Overall

- Uwaterloo
- McGill
- Queen's
- Alberta
- McMaster

MEDICAL DOCTORAL

The Medical Doctoral universities are those with a broad range of PhD programs and research, as well as medical schools

OVERALL RANKING		STUDENT BODY								CLASSES				FACULTY			FINANCES			LIBRARY			REPUTATION		
	LAST YEAR	Average Ranking	Proportion With 12% Or Higher	Proportion With Graduate	Out Of 100 (1st Year)	International (1st Year)	International (2nd Year)	Student Awards	Class Size: 1st Year	Class Size: 2nd Year	Class Size: 3rd Year	Class Size: 4th Year	Class Size: 5th Year	Awards Per Full-Time Faculty	Social Sciences & Humanities	Natural Sciences	Operating Budget	Scholarships & Bursaries (Percentage Of Budget)	Student Services (Percentage Of Budget)	Initial Holdings	Holdings Per Student	Acquisitions	Expenditures	Human Support	Remediation Survey
1	Toronto	1	4	4	4	12	7	15	4	8	13	7	2	1	3	1	4	1	1	1	3	3	1	1	1
2	UBC	2	2	2	3	9*	11	8	3	6	15	14	1	4	1	3	10	7	2	3	5	13	2	5	10
3	Queen's	3	3	1	7*	4	10	3	2	10*	3	15	4*	3	6	7	11	2	8	7	2	7	5	4	3
4	McGill	4	5*	3	1*	2	1	5	1	10*	4	18	8*	2	2	2	9	5	11	8	9	12	7*	3	2
5	Alberta	6	11	11	12	5	6	6	9	8	5	12	4*	8	9	4	5	3	1	2	1	8	6	10*	4
6	Western	5	9	5	8	7	8	12	11*	7	11	5	7	12	11	6	7	4	3	4	7	4	3	2	7
7	Montreal	10	1	6	6	8	3	4	5*	5	2	11	11	5	4	8	7	8	6	6	14	14	9	9	13
8	McMaster	7	13	9	9	13	5	11	7	15	15	3	4	6	7	11	3	12	15	13	11	2	13	12	5
9	Dalhousie	8	10	8	7	1	9	9	5*	10*	1	6	14	14	12	14	6	10	9*	14	13	6	10	8	9
10	Ottawa	9	12	12	9	3	4	10	10	9*	17	1	3	8*	8	9	1	9	5	11	8	10	12	13	13
11	Saskatchewan	15	7	7	13	9*	13	1	15	2	8	9	12	15	15	15	13	15	13	9	4	1	4	14	14
12	Calgary	12	14	14	15	5	15	14	14	14	7	13	13	11	10	10	2	8	7	5	6	11	11	6	8
13	Laval	11	5*	10	10	15	2	2	8	12	15	4	10	7	5	9	12	13	12	18	10	9	14	15	11
14	Shethbrook	13	8	13	13	14	14	7	13	1	16	9	15	13	14	12	15	17	8*	18	18	9	15	16	12
15	Manitoba	14	15	15	14	11	12	15	11*	13	9	7	8*	9*	13	13	14	14	14	12	12	15	7*	7	15

READING THE RANKINGS



Scholarship winners Amy Lee Kowalsky, Aaron Gilson, Laura Zelen and Anishkale Somasiri at University of British Columbia

Where are the smart students, the small classes, the strong library resources? Which university has the strongest reputation, the largest out-of-province draw? Maclean's presents a detailed guide to all the facts and figures behind its exclusive rankings of Canadian universities.



GAZETTE Page 34



GAZETTE Page 34



GAZETTE Page 34



GAZETTE Page 34



GAZETTE Page 34

STUDENT BODY

AVERAGE ENTERING GRADE

Students are ranked by the input of their peers. Here are the average first-year grades of first-year students entering from high school in Quebec's CEGEP system.

	GRADE
1 Montreal	81.9%
2 UBC	81.7%
3 Queen's	81.2%
4 Toronto	80.9%
5 York	80.8%
6 Mount Allison	80.7%
7 Waterloo	80.6%
8 Laval	80.5%
9 McGill	80.4%
10 Saskatchewan	80.3%
11 Dalhousie	80.2%
12 Western	80.1%
13 Dalhousie	80.0%
14 Winnipeg	79.9%
15 Simon Fraser	79.8%
16 Alberta	79.7%
17 York	79.6%
18 York	79.5%
19 York	79.4%
20 York	79.3%
21 York	79.2%
22 York	79.1%
23 York	79.0%
24 York	78.9%
25 York	78.8%
26 York	78.7%
27 York	78.6%
28 York	78.5%
29 York	78.4%
30 York	78.3%
31 York	78.2%
32 York	78.1%
33 York	78.0%
34 York	77.9%
35 York	77.8%
36 York	77.7%
37 York	77.6%
38 York	77.5%
39 York	77.4%
40 York	77.3%
41 York	77.2%
42 York	77.1%
43 York	77.0%
44 York	76.9%
45 York	76.8%
46 York	76.7%
47 York	76.6%
48 York	76.5%
49 York	76.4%
50 York	76.3%

THE QUALITY AND BERGERON of students has no enormous impact on the learning environment. Maclean's not only looks at measures of entering grades, but also calculates the success of the student body at winning national awards and at graduating within a reasonable time frame. The university's drawing power from other regions is measured as well.

PROPORTION WITH TOL OF HIGH

Maclean's calculates the percentage of first-year students arriving from high school in Quebec's CEGEP system.

	PER CENT
1 York	88.8
2 York	88.7
3 York	88.6
4 York	88.5
5 York	88.4
6 York	88.3
7 York	88.2
8 York	88.1
9 York	88.0
10 York	87.9
11 York	87.8
12 York	87.7
13 York	87.6
14 York	87.5
15 York	87.4
16 York	87.3
17 York	87.2
18 York	87.1
19 York	87.0
20 York	86.9
21 York	86.8
22 York	86.7
23 York	86.6
24 York	86.5
25 York	86.4
26 York	86.3
27 York	86.2
28 York	86.1
29 York	86.0
30 York	85.9
31 York	85.8
32 York	85.7
33 York	85.6
34 York	85.5
35 York	85.4
36 York	85.3
37 York	85.2
38 York	85.1
39 York	85.0
40 York	84.9
41 York	84.8
42 York	84.7
43 York	84.6
44 York	84.5
45 York	84.4
46 York	84.3
47 York	84.2
48 York	84.1
49 York	84.0
50 York	83.9

PROPORTION WHO GRADUATE

Maclean's measures the percentage of full-time second-year undergraduates who completed their degrees within one year of the expected graduation date.

	PER CENT
1 York	84.6
2 York	84.5
3 York	84.4
4 York	84.3
5 York	84.2
6 York	84.1
7 York	84.0
8 York	83.9
9 York	83.8
10 York	83.7
11 York	83.6
12 York	83.5
13 York	83.4
14 York	83.3
15 York	83.2
16 York	83.1
17 York	83.0
18 York	82.9
19 York	82.8
20 York	82.7
21 York	82.6
22 York	82.5
23 York	82.4
24 York	82.3
25 York	82.2
26 York	82.1
27 York	82.0
28 York	81.9
29 York	81.8
30 York	81.7
31 York	81.6
32 York	81.5
33 York	81.4
34 York	81.3
35 York	81.2
36 York	81.1
37 York	81.0
38 York	80.9
39 York	80.8
40 York	80.7
41 York	80.6
42 York	80.5
43 York	80.4
44 York	80.3
45 York	80.2
46 York	80.1
47 York	80.0
48 York	79.9
49 York	79.8
50 York	79.7

UNIVERSITY OF BRITISH COLUMBIA is exempted from reporting information for this category. Since this measure tracks the path of second-year students and graduation, the relative quality of UNBC programs is more important. Its overall score is calculated on the remaining categories.



Making the grade at Waterloo's Maize University scholarship winners: Kaitlin Kim, Shantel Malik, Zofia Bork and Felipe Duenas

OUT OF PROVINCE (FIRST YEAR)

Percentage of students from other provinces

FEDERAL REPRESENTATION

	PER CENT
1. New Brunswick	61.5
2. British Columbia	45.3
3. BC Columbia	38.3
4. Alberta	25.5

10. Saskatchewan 15.8 |

11. Yukon 1.1 |

12. Northwest Territories 1.1 |

13. Nunavut 1.1 |

14. Prince Edward Island 1.1 |

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FOR UNDERGRADUATES, the classroom is the front line of learning. Because tenure is a significant measure of a faculty member's worth, Maclean's measures the commitment of universities to placing tenured and tenure-track professors at the head of first-year classes. In addition, the magazine takes into account the entire range of classes, placing them in six groups of ascending size and awarding points for the number of classes in each group: six points for each class in the smallest range, five for each in the next smallest and so on. The total points are divided by the number of classes to create a final score for each university.



At Trent, Gordon Johnston leads a first-year English seminar through Mary Shelley's *Frankenstein*; York University's Steven Kozicki (below) teaches first-year physics to physical science and engineering students.



CLASSES TAUGHT BY TENURED FACULTY

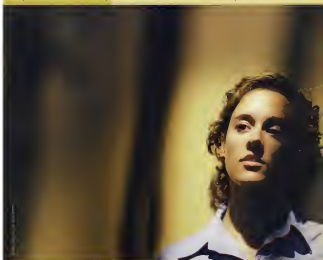
Maclean's measures the percentage of first-year classes taught by tenured or tenure-track professors.

UNIVERSITY	PERCENTAGE
1. Waterloo	80.6
2. Laurentian	78.2
3. St. Francis Xavier	76.8
4. Wilfrid Laurier	75.7
5. York University	75.0
6. York University (UGO)	73.0
7. Saint Mary's	72.6
8. UofT	72.4
9. Saskatchewan	68.0
10. UBC	67.1
11. Lethbridge	67.0
12. Brock	65.9
13. Kingston	64.8
14. Ryerson	64.2
15. Brandon	64.1
16. Acadia	64.0
17. Bishop's	63.1
18. Mount Saint Vincent	61.4
19. St. Thomas	60.0
20. Wilfrid Laurier	57.4
21. UNBC	56.9

UNIVERSITY	PERCENTAGE
1. York	54.4
2. Memorial	53.2
3. Windsor	52.2
4. Waterloo	51.7
5. Guelph	51.6
6. Nova Brunswick	51.5
7. Regina	47.6
8. Simon Fraser	48.1
9. Concordia	42.0
10. Carleton	41.0
11. Victoria	40.6

UNIVERSITY	PERCENTAGE
1. Waterloo	73.6
2. Toronto	70.7
3. Ottawa	68.0
4. Laurier	64.4
5. McMaster	62.8
6. Carleton	61.9
7. Markham	61.3
8. Saskatchewan	61.9
9. Sherbrooke	60.6
10. McGill	61.5
11. Montreal	60.0
12. Alberta	64.5
13. Calgary	61.3
14. UBC	55.9
15. Queen's	54.4

My First Year at University: went to class, studied a lot, wrote reports.



My First Year at Accenture: went to class, studied a lot, wrote reports, built a company.

PERCENTAGE OF CLASSES, GROUPED BY SIZE

First- and second-year level

Percentage of classes by size	1-25	26-50	51-100	101-250	251-500	500+
1. Total	1.25	15.50	6.25	3.30	3.21	69.49
2. Core & Intro (CCS)	17.28	28.1	7.50	1.1	0.00	45.91
3. Biology	18.85	32.46	16.45	0.00	0.00	32.24
4. Chemistry	43.94	25.17	16.73	2.27	0.00	11.93
5. Mathematics	58.90	20.98	20.0	2.78	0.00	0.00
6. Physics	56.67	25.23	17.8	1.10	0.00	0.00
7. Engineering	53.04	28.33	11.08	3.21	0.00	0.00
8. UPE	57.00	20.33	11.95	2.30	0.4	0.00
9. St. Francis Xavier	23.52	20.40	13.50	2.00	0.00	40.58
10. Mount Saint Vincent	65.00	20.50	10.00	3.10	0.00	0.00
11. Monmouth	59.67	48.16	13.94	0.0	0.00	0.00
12. Lafayette	52.52	22.22	11.80	8.41	0.24	0.00
13. Middle	38.07	40.30	14.25	2.42	0.00	0.00
14. Mount Allison	26.78	22.7	17.42	6.81	0.00	26.29
15. Brock	43.02	28.43	18.07	10.34	0.00	0.00
16. Yorkville	43.94	21.83	18.67	5.79	0.00	0.00
17. Saint Mary's	39.04	42.03	15.94	3.01	0.00	0.00
18. St. Thomas	37.30	25.73	27.03	0.00	0.00	0.00
19. UPMC	43.47	25.34	18.08	12.30	0.00	0.00
20. Ryerson	38.01	48.36	11.92	7.75	0.12	0.00
21. Mount Loyola	41	15.6	28.5	9.34	0.00	0.00

COMMERCIAL/ENGINEERING

Percentage of classes by size	1-25	26-50	51-100	101-250	251-500	500+
1. Business	0.00	33.43	32.14	5.41	0.41	0.11
2. Medicine	55.47	27.59	16.36	1.58	0.00	0.00
3. Computer	45.26	35.43	16.6	2.28	0.00	0.33
4. Mechanical	22.2	46.73	30.19	1.11	0.00	0.00
5. Bio-Informatics	38.73	30.46	25.4	4.79	0.00	0.00
6. Physics	30.54	25.95	31.45	13.45	1.40	0.00
7. Simon Fraser	64.3	16.96	12.87	3.67	1.40	0.00
8. Dalhousie	38.61	26.77	27.48	12.10	1.56	0.11
9. York	34.49	18.52	23.42	18.4	3.38	0.00
10. Carleton	27.10	25.67	27.71	15.51	2.8	0.00
11. Western	25.14	22.67	25.47	18.42	4.28	0.00

MEDICAL/SOCIUMAL

Percentage of classes by size	1-25	26-50	51-100	101-250	251-500	500+
1. Statistics	58.40	20.44	12.1	2.37	0.00	0.00
2. Anthropology	58.27	26.73	11.94	4.59	0.49	0.00
3. Medicine	43.92	19.98	18.2	1.89	0.00	0.11
4. UPE	11.97	71.73	17.1	12.1	2	0.1
5. Montreal	64.91	18.17	20.74	5.8	0.22	0.00
6. McGill	13.78	31.47	14.05	11.4	2.00	0.4
7. Ottawa	61.47	28.12	11.08	11.08	0.50	0.00
8. Alberta	41.12	21.21	17.75	11.42	1.40	0.00
9. Toronto	41.91	16.26	14.68	14.79	7.81	0.23
10. Bathurst	35.41	29.17	23.03	10.7	0.00	0.01
11. Queen's	43.00	11.88	21.08	22.75	0.11	0.00
12. York	23.95	25.74	22.05	11.00	0.20	0.00
13. Manitoba	32.62	24.41	21.92	15.94	0.4	0.00
14. Calgary	30.56	24.06	19.42	11.46	1.5	0.00
15. McMaster	38.28	27.31	17.40	13.30	5.28	0.00

Third- and fourth-year level

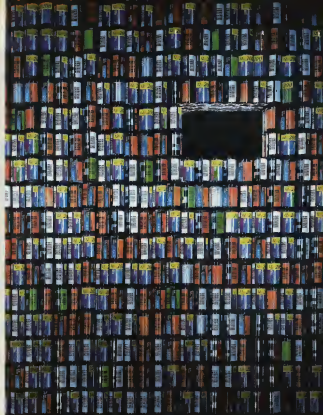
Percentage of classes by size	1-25	26-50	51-100	101-250	251-500	500+
1. Total	1.25	15.50	6.25	3.30	3.21	69.49
2. Statistics	58.40	20.44	12.1	2.37	0.00	0.00
3. Core & Intro (CCS)	17.28	28.1	7.50	1.1	0.00	45.91
4. Chemistry	17.28	11.78	17.75	0.75	0.00	52.46
5. Mount Allison	38.28	24	20.11	0.00	0.00	31.61
6. Bishop's	34.3	14.94	8.00	0.00	0.00	42.76
7. St. Francis Xavier	34.59	15.80	1.90	0.00	0.00	47.71
8. Brock	34.82	12.12	2.92	0.25	0.00	49.91
9. Lakehead	34.94	22.76	0.78	0.41	0.00	41.11
10. Waterloo	42.57	15.86	1.38	0.04	0.00	39.93
11. Monmouth	43.70	15.85	2.00	0.00	0.00	38.45
12. Yorkville	42.47	15.12	2.42	0.00	0.00	39.99
13. Mount Saint Vincent	41.80	15.42	1.62	0.00	0.00	39.16
14. Ryerson	42.30	15.41	2.12	0.04	0.00	39.93
15. UPMC	38.62	14.48	1.90	0.00	0.00	44.99
16. Acadia	35.25	24.11	0.00	0.00	0.00	40.64
17. Saint Mary's	38.70	23.08	1.50	0.00	0.00	36.72
18. St. Thomas	35.70	14.78	4.45	0.00	0.00	45.07
19. Mount Loyola	31.00	20.94	4.97	0.00	0.00	38.93
20. UPE	21.38	19.47	4.18	1.17	0.00	53.79
21. Ryerson	43.96	25.08	0.78	1.21	0.00	28.96

COMMERCIAL/ENGINEERING

Percentage of classes by size	1-25	26-50	51-100	101-250	251-500	500+
1. Business	10.52	31.93	4.36	0.21	0.00	53.00
2. Medicine	49.21	27.94	4.32	0.21	0.11	1.19
3. Computer	12.36	35.68	8.50	1.3	0.10	42.05
4. Bio-Informatics	19.02	23.37	7.38	0.15	0.00	49.95
5. Carleton	11.40	14.43	7.50	1.50	0.07	65.05
6. Concordia	42.38	27.48	6.78	0.5	0.00	23.86
7. Waterloo	40.60	25.94	6.00	0.02	0.00	27.44
8. Waterloo	45.14	21.4	11.92	1.54	0.11	19.81
9. York	43.74	23.89	10.48	1.73	0.07	19.99
10. Carleton	48.02	21.02	5.77	1.31	0.00	19.92
11. Dalhousie	42.18	20.72	11.55	1.05	0.34	0.00

MEDICAL/SOCIUMAL

Percentage of classes by size	1-25	26-50	51-100	101-250	251-500	500+
1. Statistics	42.82	12.03	4.12	0.21	0.00	38.82
2. Medicine	41.15	19.05	7.28	0.57	0.00	31.03
3. Queen's	43.2	15.97	5.30	1.37	0.00	34.16
4. McGill	43.6	11.43	5.96	1.42	0.00	37.61
5. Alberta	38.40	11.50	6.41	1.31	0.00	42.38
6. McMaster	39.02	11.03	8.18	2.95	0.00	40.82
7. Dalhousie	35.82	10.82	5.74	1.62	0.00	45.90
8. Saskatchewan	39.11	21.13	4.92	1.0	0.00	34.00
9. Manitoba	34.60	16.20	10.90	0.98	0.00	37.32
10. UPE	34.19	11.90	7.45	1.03	0.21	45.21
11. Waterloo	37.18	17.20	8.18	1.27	0.00	36.07
12. Ottawa	39.62	17.00	9.15	1.34	0.00	32.99
13. Toronto	49.00	18.13	8.86	2.31	0.34	20.36
14. Sherbrooke	48.18	20.27	10.12	0.00	0.00	11.43
15. Laval	51	22.3	10.97	1.62	0.11	0.00



THE CALIBRE OF THE FACULTY is vital to the students' own development. Maclewan's calculates the percentage of faculty with a PhD. It also measures their success at winning national awards and peer-reviewed grants from the three major federal granting agencies, as well as from the Canada Council.



Shelley MacDougall delivers a lecture to business administration students at Seattle University.

FACULTY WITH D.D.S.

WITH PHDs
 MacArthur's included
 the percentage of full-time
 faculty with a PhD

[illegible]

FACULTY AWARDS

The five year tally of the number of full-time professors, per 1,000, who have won national awards

PRIMAVERA	VERANO	AUTUNNO	INVERNO
1 Bravi	6,7	8 Canino	1,5
1 L'Espresso	4,4	8 New Business	1,8
2 L'Espresso	3,7	10 Cosmopolitan	0,2
4 News & Photos	3,7	11 Region	12,5
5 Il Sole 24 Ore	3,2		
6 Wespac	2,8		
7 L'Unità	2,4	11 Temes	19,1
* L'Espresso	1,2	3 McGill	9,9
9 L'Espresso	1,2	3 Quarta	9,9
11 L'Espresso	1,1	4 Uff	0,9
* L'Espresso	1,0	5 Mediaset	1,3
* L'Espresso	1,0	6 Mediaset	1,9
* L'Espresso	1,0	7 L'Espresso	1,9
* L'Espresso	1,0	8 L'Espresso	1,9
* L'Espresso	1,0	9 Mediaset	5,3
* L'Espresso	1,0	10 Mediaset	5,3
* L'Espresso	1,0	11 Mediaset	5,3
* L'Espresso	1,0	12 Mediaset	5,3
* L'Espresso	1,0	13 Mediaset	5,3
* L'Espresso	1,0	14 Mediaset	5,3
* L'Espresso	1,0	15 Mediaset	5,3
* L'Espresso	1,0	16 Mediaset	5,3
* L'Espresso	1,0	17 Mediaset	5,3
* L'Espresso	1,0	18 Mediaset	5,3
* L'Espresso	1,0	19 Mediaset	5,3
* L'Espresso	1,0	20 Mediaset	5,3
* L'Espresso	1,0	21 Mediaset	5,3
* L'Espresso	1,0	22 Mediaset	5,3
* L'Espresso	1,0	23 Mediaset	5,3
* L'Espresso	1,0	24 Mediaset	5,3
* L'Espresso	1,0	25 Mediaset	5,3
* L'Espresso	1,0	26 Mediaset	5,3
* L'Espresso	1,0	27 Mediaset	5,3
* L'Espresso	1,0	28 Mediaset	5,3
* L'Espresso	1,0	29 Mediaset	5,3
* L'Espresso	1,0	30 Mediaset	5,3

CONSTITUTION

1	Malawi	6.8
2	Sierra Leone	5.5
3	Niger	4.3
4	Gambia	4
5	Nigeria	3.9
6	Mozambique	2.3
7	Windsor	1.8
8	Guinea	1.5
9	New Brunswick	1.8
10	Costa Rica	1.2
11	Belize	0.9

MEDICAL HISTORY

1	Thrash	191
2	McGill	99
3	Queen's	63
4	UBC	61
5	Memorial	59
6	McMaster	76
7	Laval	6
8	Monk	57
9	Moncton	58
10	Ottawa	53
11	Calgary	65
12	Kentville	42
13	Shawville	38
14	Salmon	32
15	Saskatoon	2

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All Science Fiction, *Sci-Fi* professor Carole Danon teaching a great class.



University of Toronto (post winner) David Bernard, In Situ Laboratory

SOCIAL SCIENCES AND HUMANITIES GRANTS

Below are the average size and number of post-adjuncted research grants from both the Social Sciences and Humanities Research Council and the Canada Council. The size of grants is listed per eligible full-time faculty member; the number of grants is per 100 eligible full-time faculty members. The results reflect a weighted average of the two

FUNDING (in \$ mil)		COMPANIES	
1	Gap Inc.-USA	10,343	12.28
2	Sony Music	7,941	14.11
3	Warner	7,341	13.86
4	St. Francis Health	3,779	11.35
5	United Leisure	3,500	11.86
6	HRBC	2,175	14.29
7	Winning	2,770	11.34
8	Novus Health	1,055	10.71
9	Wendy	1,364	6.69
10	WGL	1,114	10.21
11	Windsor	2,314	7.88
12	Lakeview	1,200	7.14
13	Mount-Saint-Vincent	839	8.51
14	Acadia	1,352	6.49
15	Winthrop	996	10.01
16	Lehighridge	925	5.64
17	Billing's	851	9.59
18	St. Thomas	554	5.41
19	Lawrence	654	6.71
20	Shelton	604	5.94
21	St. Joseph's Health	543	12.28
22	Wicklow	494	12.94
23	St. Francis Health	475	11.35
24	Windsor	475	11.35
25	WGL	414	10.21
26	Wendy	414	10.21
27	WGL	414	10.21
28	WGL	414	10.21
29	WGL	414	10.21
30	WGL	414	10.21
31	WGL	414	10.21
32	WGL	414	10.21
33	WGL	414	10.21
34	WGL	414	10.21
35	WGL	414	10.21
36	WGL	414	10.21
37	WGL	414	10.21
38	WGL	414	10.21
39	WGL	414	10.21
40	WGL	414	10.21
41	WGL	414	10.21
42	WGL	414	10.21
43	WGL	414	10.21
44	WGL	414	10.21
45	WGL	414	10.21
46	WGL	414	10.21
47	WGL	414	10.21
48	WGL	414	10.21
49	WGL	414	10.21
50	WGL	414	10.21

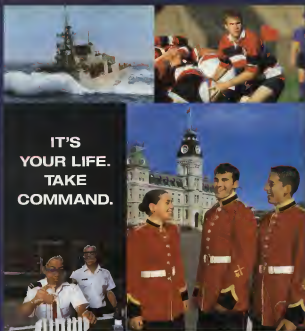
8	Orissa	4,132	24.65
9	Uttara	4,384	24.57
10	Gujarat	4,027	18.2
11	Madhya	3,225	28.34
12	Karnataka	4,746	19.38
13	West Bengal	3,693	12.79
14	Chhattisgarh	2,706	11.91
15	Sikkim	2,333	8.1

MEDICAL/SCIENCE GRANTS

Here are the average size and number of peer-reviewed research grants from both the National Science and Engineering Research Council and the Canadian Institutes of Health Research. The size of grants is listed per eligible full-time faculty member; the number of grants is per 100 eligible full-time faculty members. The various effects a weighted average of the two.

Penny Stocks			LTD			LTD		
1	Amesbury	\$25.14	11.11	1	Nvidia	\$84.00	102.12	
2	Avant	\$6.12	11.11	2	Google	\$5.12	102.12	
3	Avaya	\$24.12	11.11	3	IBM	\$64.00	102.12	
4	Bank	\$14.12	11.11	4	Intel	\$14.12	102.12	
5	Bank	\$14.12	11.11	5	Microsoft	\$14.12	102.12	
6	Bank	\$14.12	11.11	6	Oracle	\$14.12	102.12	
7	Bank	\$14.12	11.11	7	Yahoo	\$14.12	102.12	
8	Bank	\$14.12	11.11	8	Amazon	\$14.12	102.12	
9	Bank	\$14.12	11.11	9	Facebook	\$14.12	102.12	
10	Bank	\$14.12	11.11	10	Twitter	\$14.12	102.12	
11	Bank	\$14.12	11.11	11	LinkedIn	\$14.12	102.12	
12	Bank	\$14.12	11.11	12	Slack	\$14.12	102.12	
13	Bank	\$14.12	11.11	13	Dropbox	\$14.12	102.12	
14	Bank	\$14.12	11.11	14	Zoom	\$14.12	102.12	
15	Bank	\$14.12	11.11	15	Zoom	\$14.12	102.12	
16	Bank	\$14.12	11.11	16	Zoom	\$14.12	102.12	
17	Bank	\$14.12	11.11	17	Zoom	\$14.12	102.12	
18	Bank	\$14.12	11.11	18	Zoom	\$14.12	102.12	
19	Bank	\$14.12	11.11	19	Zoom	\$14.12	102.12	
20	Bank	\$14.12	11.11	20	Zoom	\$14.12	102.12	

It should be noted that reporting information for the industry as a whole after source payments, by itself, was unrelated to the reporting indicators.



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National Defence



Canada

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THE FINANCIAL RESOURCES at a university's disposal determine its ability to provide students with many valuable opportunities. Blackwell's measures the size of the operating budget per weighted full-time-equivalent student, as well as the percentage of the budget devoted to student services and to scholarships and bursaries.



Top works for investing in student services at Bishop's University

OPERATING BUDGET

These figures show the size of operating expenditures per weighted full-time-equivalent student.

PERMANENT UNDERGRADUATE

1 Mount Allison	9,400
2 YPU	9,355
3 UNBC	9,280
4 Trent	9,246
5 Bishop's	9,048
6 St. Francis Xavier	7,759
7 Acadia	7,618
8 Lakehead	7,457
9 Humber	7,360
10 Laurier	7,214
11 Carleton	7,029
12 Upeaux	6,910
13 St. Thomas	6,860
14 Saint Mary's	6,813
15 Cape Breton (2000)	6,756
16 Waterloo	6,569
17 Mount Saint Vincent	6,629
18 Monash	6,132
19 Brandon	5,896
20 Wilfrid Laurier	5,558
21 Brock	4,954

UNEMPLOYED

1 Simon Fraser	\$9,991
2 General	8,733
3 Regina	8,679
4 Victoria	8,156
5 York	7,885
6 Windsor	7,550
7 New Brunswick	7,300
8 Winnipeg	7,271
9 Bc	7,252
10 Conestoga	7,194
11 Saskatchewan	6,225

PERMANENT POSTGRADUATE

1 Ottawa	\$48,774
2 Calgary	5,063
3 McMaster	8,764
4 Toronto	9,734
5 Alberta	14,473
6 Yukon	6,728
7 Western	7,644
8 Montreal	7,716
9 McGill	7,556
10 BC	7,553
11 Queen's	7,680
12 Lund	7,436
13 Saskatchewan	7,371
14 Waterloo	7,324
15 Sherbrooke	7,043

SCHOLARSHIPS & BURSARIES

Percentage of total operating expenditures devoted to scholarships and bursaries

PERMANENT UNDERGRADUATE

1 Trent	6.68
2 Wilfrid Laurier	6.17
3 Laurier	7.47
4 Bishop's	7.26
5 Lakehead	7.17
6 St. Thomas	7.11
7 York	6.96
8 Monash	6.52
9 Upeaux	6.02
10 Mount Allison	5.97
11 St. Francis Xavier	5.94
12 Bc	5.87
13 Saint Mary's	5.87
14 Waterloo	5.51
15 Brock	5.59
16 Mount Saint Vincent	5.79
17 Winnipeg	5.66
18 Carleton	5.11
19 UNBC	5.11
20 Brandon	5.12
21 Cape Breton (2000)	4.42

UNEMPLOYED

1 Ontario	10.18
2 Yc	8.57
3 Victoria	7.54
4 York	6.91
5 Windsor	6.81
6 Montreal	6.71
7 Yukon	5.85
8 Simon Fraser	5.71
9 New Brunswick	4.98
10 Conestoga	4.27
11 Regina	3.88

PERMANENT POSTGRADUATE

1 Ontario	19.26
2 Ontario	11.89
3 Alberta	17.68
4 Western	13.58
5 McGill	10
6 Calgary	9.95
7 BC	9.08
8 Montreal	8.71
9 Ottawa	8.5
10 Yukon	8.43
11 Saskatchewan	8.11
12 McMaster	7.92
13 York	7.43
14 Kentucky	6.71
15 Saskatchewan	4.37

Registered Retirement Savings Plan

100%

100%

but is not based on the following: the election of an employee, a self-employed person, a person with a professional or semi-professional designation to voluntarily terminate their employment or occupation; as applicable, upon reaching an age when one plans to retire, either specified through contract, contract in writing, law or in a trust order; or a statement of an individual designated retirement plan; the termination of an employee's occupation as a profession followed by an election of retirement into the workforce; in planning for retirement, it is important to ensure that the required income stream is in place which would allow an individual to retire upon the termination of the designated retirement plan. Regular contributions to a Registered Retirement Savings Plan (RRSP) while saving for income can ensure that there is an income source in place to provide for your retirement.

An RRSP is an investment vehicle which is approved with the Canada Customs and Revenue Agency which effectively creates a tax shelter for the income you are presently earning, protecting this income from and the income realized from receiving your income as it is taxed by the government when you receive the contribution and proceeds of the investments as opposed to being taxed on the income during the year in which it was earned. These are losses placed in the hands of your students which may be contributed to an RRSP in any one year. A personal injury which leads to an individual being permanently disabled from being able to earn an income can include but is not limited to the following: any form of damage to the health of a person, whether caused by accident, disease or otherwise, and may include the aggression of an existing injury (for example a pre-existing injury to your knee).

Investments which may be qualified for an RRSP include but are not limited to the following: stocks, bonds, GICs, Canada Savings Bonds, term deposits, shares of Canadian companies and of some foreign companies if they are listed on a recognized Canadian stock exchange, mutual funds that invest in eligible securities, Canadian corporate and government bonds and certain types of insurance. As long as you earn income in Canada and you pay Canadian income taxes, you can use any RRSP to save in Canada. As your own income until the end of the calendar year in which you turn 69. Individuals may belong to a pension plan in connection with an occupation but are not limited to an equivalent amount in their place of work. In the event in which an individual belongs to a pension plan, it can, may or will have what the allowable

Source: IRIS

Source: IRIS

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CLARICA



Heads down at the well-resourced University of Northern British Columbia

THE LIBRARY IS THE HEART of many campuses. Mediatrix measures the commitment to library funding, as well as the collector's size and diversity.

TOTAL LIBRARY HOLDINGS

MEDICAL DOCTORAL

in MILLIONS

1. Alberta	14,203
2. Alberta	8,629
3. UBC	8,150
4. Western	4,484
5. Calgary	3,911
6. Montreal	3,725
7. Concordia	3,180
8. McGill	3,020
9. Saskatchewan	2,896
10. UofT	2,771
11. Western	2,504
12. Manitoba	2,134
13. McMaster	2,080
14. Dalhousie	1,458
15. Saskatchewan	1,723

HOLDINGS PER STUDENT

These figures show the number of volumes in all campus libraries, divided by the number of full-time equivalent students.

COMPREHENSIVE

1. Montreal	30.3
2. New Brunswick	20.1
3. Victoria	26.0
4. Waterloo	25.9
5. Guelph	25.5
6. Regina	21.0
7. Concordia	25.1
8. Western	12.7
9. York	14.6
10. Concordia	15.2
11. Saint-Francois	10.6

ACQUISITIONS

To gauge the breadth of resources, Mediatrix measures the proportion of the library budget allocated to updating the university's collection.

PERCENTAGE OF BUDGET FOR ACQUISITIONS

1. UofT	57.48
2. Laval	49.13
3. Mount Saint Vincent	42.84
4. York	41.22
5. St. Francis Xavier	40.53
6. Windsor	38.58
7. Brock	38.56
8. UPE	38.9
9. Ryerson	37.14
10. Mount Allison	37.13
11. Western	36.96
12. Laurier	36.55
13. Wilfrid Laurier	35.50
14. Bishop's	34.72
15. Mount St. Vincent	33.71
16. York	33.66
17. St. Mary's	33.21
18. Dalhousie	32.74
19. Bishop's	32.71
20. Western	32.5

COMPREHENSIVE

PER CENT

1. Regina	55.68
2. Simon Fraser	45.14
3. Memorial	43.84
4. Victoria	41.85
5. Windsor	41.67
6. Waterloo	41.51
7. York	39.60
8. York	37.81
9. Concordia	33.14
10. Carleton	32.13
11. New Brunswick	31.25

MEDICAL DOCTORAL

PER CENT

1. Saskatchewan	41.53
2. McMaster	41.37
3. Ontario	40.43
4. Western	40.06
5. Saskatchewan	40.67
6. Dalhousie	41.76
7. Ontario	40.46
8. UofT	41.13
9. UofT	40.46
10. UofT	41.63
11. Calgary	41.03
12. McGill	39.73
13. McGill	39.38
14. UBC	39.45
15. Manitoba	39.61

EXPENSES

A measure of financial commitment, this indicator shows the percentage of the university budget devoted to maintaining library services.

PURCHASED ENCLOSURES

PER CENT

1. UBC	7.10
2. York's	7.1
3. Winnipeg	7.14
4. Mount Allison	7
5. Montreal	6.87
6. Brock	6.17
7. York	6.1
8. Laval	5.91
9. Alberta	5.75
10. Laval	5.74
11. St. Thomas	5.68
12. St. Francis Xavier	5.65
13. McGill	5.64
14. Saint Mary's	5.59
15. Concordia	5.52
16. Ryerson	4.77
17. UPE	4.66
18. Mount Saint Vincent	4.44
19. Windsor	4.36
20. York	4.31
21. Cape Breton (UNB)	3.83

COMPREHENSIVE

PER CENT

1. Montreal	7.3
2. New Brunswick	6.52
3. Carleton	6.81
4. Regina	6.78
5. Windsor	6.78
6. Saint-Francois	6.64
7. York	6.51
8. York	6.23
9. York	6.21
10. York	6.11
11. Concordia	5.76

MEDICAL DOCTORAL

PER CENT

1. Ontario	6.26
2. UBC	7.62
3. Western	7.6
4. Saskatchewan	7.35
5. York's	7.3
6. Alberta	6.28
7. Manitoba	6.50
8. York	6.52
9. Montreal	6.41
10. Laval	5.72
11. Laval	5.62
12. York	5.33
13. McMaster	6.31
14. Laval	4.84
15. Saskatchewan	4.23

"I've found a better way to help manage my cholesterol. And I'm thrilled with the results."

Maddie Williams, mother of two

Maddie Williams might not look like someone who has to worry about her cholesterol. But high cholesterol affects more people than you might think. In fact, Statistica Canada says it exists in nearly half of all men and women in this country. Which is why it's such great news that Beel Pro-Activ margarine is finally here.

Beel Pro-Activ contains plant sterols, an ingredient found naturally in fruits, grains, vegetables and oils. When eaten as part of a healthy diet, plant sterols have been shown to help manage cholesterol.

To find out more about how Beel Pro-Activ margarine, call 1-800-663-5574. And for important facts on the health benefits of plant sterols, visit www.plantsterols.ca



beel into your health to heart



TAKING THE LEAD

A SOLID REPUTATION attracts the best students and professors—and gives graduates an enviable calling card.

Maclean's measures a school's reputation with its own graduates through alumni surveys. In addition, editors solicited the opinion of 7,255 high-school guidance counselors from every province and territory; university officials at each ranked institution, the heads of a wide variety of national and regional organizations, plus CEOs and recruiters at corporations

large and small. As in recent years, Maclean's expanded the list of corporate representatives, with particular attention to regional balance.

The reputational survey is both regional and national in character, dividing the country into the following areas: the Atlantic provinces, Quebec, Ontario and the western provinces. All respondents completed a national survey, anonymity officials and guidance counselors also completed regional surveys.

NATIONAL REPUTATIONAL RANKING

This ranking combines all 47 universities from the three categories into one group. Below are the top 25.

BEST OVERALL

- 1 Waterloo
- 2 Toronto
- 3 McGill
- 4 Queen's
- 5 Alberta
- 6 UBC
- 7 McMaster
- 8 UBC
- 9 Acadia
- 10 Simon Fraser
- 11 Western
- 12 Ryerson
- 13 Calgary
- 14 Dalhousie
- 15 Victoria
- 16 Mount Allison
- 17 Wilfrid Laurier
- 18 Memorial
- 19 Laval
- 20 Moncton
- 21 Sherbrooke
- 22 Ottawa
- 23 York
- 24 St. Francis Xavier
- 25 Saskatchewan

Highest Quality

- 1 Queen's
- 2 McGill
- 3 Waterloo
- 4 Queen's
- 5 Alberta
- 6 McMaster
- 7 Alberta
- 8 Western
- 9 Acadia
- 10 Dalhousie
- 11 Simon Fraser
- 12 Dalhousie
- 13 York
- 14 Memorial
- 15 Mount Allison
- 16 St. Francis Xavier
- 17 Saskatchewan
- 18 York
- 19 Sherbrooke
- 20 Ottawa
- 21 York
- 22 St. Francis Xavier
- 23 Saskatchewan

Most Innovative

- 1 Waterloo
- 2 McMaster
- 3 Dalhousie
- 4 Queen's
- 5 Alberta
- 6 Simon Fraser
- 7 McGill
- 8 UBC
- 9 Acadia
- 10 Ryerson
- 11 Western
- 12 York
- 13 Calgary
- 14 Victoria
- 15 Wilfrid Laurier
- 16 Dalhousie
- 17 York
- 18 Memorial
- 19 Mount Allison
- 20 Sherbrooke
- 21 Ottawa
- 22 Laval
- 23 Moncton
- 24 St. Francis Xavier
- 25 Saskatchewan

Leaders of Tomorrow

- 1 Toronto
- 2 Victoria
- 3 Alberta
- 4 Dalhousie
- 5 McGill
- 6 McMaster
- 7 Queen's
- 8 UBC
- 9 Acadia
- 10 Ryerson
- 11 Simon Fraser
- 12 Calgary
- 13 Moncton
- 14 Laval
- 15 Mount Allison
- 16 Dalhousie
- 17 Victoria
- 18 Western
- 19 Memorial
- 20 Lethbridge
- 21 Ottawa
- 22 Wilfrid Laurier
- 23 Sherbrooke
- 24 York
- 25 Saint Mary's

In the computer graphics lab at Waterloo, students from bottom left, students Mylene Oline, Jesse Lapin and Robb Jacobson with research project supervisor Patrick Giffney and student Vincent Ma.

ALUMNI SUPPORT

Maclean's measures the percentage of alumni who made gifts to the university over a five-year period.

PROVINCEAL UNIVERSITIES

	PER CENT
1 St. Francis Xavier	30.2
2 Waterloo	29.5
3 Saint Mary's	27.4
4 Wilfrid Laurier	24.4
5 Moncton	24.6
6 York	23.3
7 Ryerson	22.5
8 Brandon	20
9 Wilfrid Laurier	19.7
10 UBC	18.3
11 Mount Allison	18.2
12 Acadia	18.0
13 Laval	18.0
14 UBC	16.9
15 Mount Saint Vincent	16.4
16 Cape Breton (CEG)	12.4
17 Brock	12.0
18 Lethbridge	11.9
19 Ryerson	11.5
20 Laurentian	7.5
— OAC	5.0

OAC, which closed in 2001, a representative group of students at the University of Ontario in the province of Ontario. The OAC's alumni survey data was used in the 2001 survey. The OAC's alumni survey data was used in the 2001 survey.

COMPREHENSIVE

	PER CENT
1 Wilfrid Laurier	22.0
2 Dalhousie	18.9
3 Concordia	16.5
4 Wilfrid Laurier	15.5
5 Simon Fraser	14.6
6 Memorial	14.5
7 Carleton	13.2
8 York	12.1
9 New Brunswick	11.7
10 Victoria	11.7
11 Regina	4.8

NATIONAL UNIVERSITIES

	PER CENT
1 Toronto	26.8
2 Waterloo	24.2
3 McGill	20.2
4 Queen's	19.5
5 UBC	18.8
6 Calgary	17.7
7 Moncton	16.8
8 Wilfrid Laurier	15
9 Montreal	14.4
10 Alberta	13.4
11 Sherbrooke	13.4
12 Wilfrid Laurier	12.2
13 Ottawa	11.8
14 Saskatchewan	11.2
15 Laval	9.5

VALUE ADDED



Lakehead University in Thunder Bay offers an enriched environment for the undergrad.

WHICH UNIVERSITIES get top marks for going the distance with their students? In this subject review, consulting students from McQuagge Scientific Ltd. juxtaposed two sets of figures. The first indicates marks related to the incoming student, average entering grade and the percentage of entering students with averages of 75 per cent or higher. The second examines two measures of student achievement: the proportion who graduate and student awards. Finally, 36 institutions identified those schools with the greatest difference between the two figures.

1 Lakehead	8 UPEL
2 Trent	9 McMaster
3 Marston	18 Dalhousie
4 Concordia	11 Ryerson
5 Laurentian	12 Brock
6 Cape Breton	13 St. Francis Xavier
(ACCC)	14 Windsor
7 McGill	15 New Brunswick

THE MACLEAN'S DIRECTORY

EVERY UNIVERSITY in the Maclean's survey has a unique history, a distinct mission—and its own particular strengths. The student numbers below refer to the 2000-2001 academic year.

ALBERTA

University of A.B. (UAB)
Full-time students: 1,579
Part-time students: 300

ALBERTA

University of Alberta (UAB)
Full-time students: 20,418
Part-time students: 4,040

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,386
Part-time students: 543

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,709
Part-time students: 1,096

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 14,808
Part-time students: 3,752

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 7,023
Part-time students: 4,003

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 11,700
Part-time students: 4,842

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,501
Part-time students: 612

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 2,960
Part-time students: 2,758

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 14,606
Part-time students: 11,786

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 30,638
Part-time students: 2,126

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 13,938
Part-time students: 1,382

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 4,900
Part-time students: 1,243

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,100
Part-time students: 2,423

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 22,518
Part-time students: 12,004

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 5,823
Part-time students: 556

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 16,356
Part-time students: 3,267

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 21,524
Part-time students: 9,729

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 13,529
Part-time students: 3,305

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 12,625
Part-time students: 2,586

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 4,529
Part-time students: 1,307

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 32,030
Part-time students: 18,438

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,020
Part-time students: 2,274

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,130
Part-time students: 1,690

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 9,522
Part-time students: 1,963

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,630
Part-time students: 1,693

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 2,131
Part-time students: 1,272

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,800
Part-time students: 1,800

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,800
Part-time students: 1,800

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,800
Part-time students: 1,800

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,800
Part-time students: 1,800

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 1,800
Part-time students: 1,800

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 12,625
Part-time students: 1,305

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 3,479
Part-time students: 500

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 5,006
Part-time students: 1,304

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 2,429
Part-time students: 250

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 14,618
Part-time students: 3,155

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 11,006
Part-time students: 5,003

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 10,547
Part-time students: 8,801

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 13,617
Part-time students: 1,300

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 8,054
Part-time students: 1,300

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 11,390
Part-time students: 9,207

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 18,089
Part-time students: 2,015

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 23,489
Part-time students: 4,376

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 7,377
Part-time students: 2,612

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 9,486
Part-time students: 3,201

BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 4,362
Part-time students: 1,362

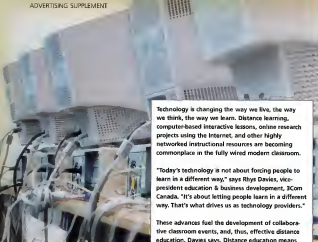
BRITISH COLUMBIA

University of British Columbia (UBC)
Full-time students: 26,278
Part-time students: 3,046



Education Solutions

In remote northern Quebec, 60 children attend a symphony—without leaving the classroom. In Ontario, students discover a treasury of music—right at their keyboard fingertips. In Ottawa, students produce their own DVD movies with school board equipment.



Technology is changing the way we live, the way we think, the way we learn. Distance learning, computer-based interactive lessons, online research projects using the Internet, and other highly networked instructional resources are becoming commonplace in the fully wired modern classroom.

"Today's technology is not about forcing people to learn in a different way," says Rhys Davies, vice-president education & business development, 3Com Canada. "It's about letting people learn in a different way. That's what drives us as technology providers."

These advances fuel the development of collaborative classroom events, and, thus, effective distance education, Davies says. Distance education means learning anything, anytime, anywhere. Rural schools overcome the traditional cost restraints of "importing" urban teachers and curriculum.

"We have to be very conscious of budget constraints," Davies says. "With properly implemented technology solutions, they can be overcome." Cost-effective operations are critical to all educational institutions. Budgetary cuts at many schools are a constant concern.

"Imagine splitting a screen into two with the instructor on one side and the material being presented on the other side," says Davies. "Imagine the ability to click on a button to raise your hand and ask a question. Imagine tapping the reservoir of teaching talent from all Canada—even around the world."

Until recently, boards could only imagine. Now, they can imagine... and implement.

Western Quebec School Board

The Problem: Geography

With such a large territory to cover in the province, the WQSB faces the challenge of delivering quality education across expansive and expensive distances. How can it improve performance and encourage students to stay in the province?

The Solution: Reduced costs of delivery

A vast video conferencing system to deliver the best of education and educators to the remotest areas of Western Quebec—overcoming the traditional cost hurdles faced by rural education systems.

The Western Quebec School Board (WQSB) is one of seven English school boards in Quebec. It covers one-third of the province's territory. It consists of 33 buildings, including its adult education centres, and has over 9000 students registered.

3Com was one of three companies to partner with the WQSB on its latest project, a \$2 million extension to the Alymer adult education centre known as the Western Quebec Career Centre. The board expects the improved facility to provide a competitive edge against similar facilities in Ontario. That edge should then encourage adult education students to study and stay in the province of Quebec. That makes the entire province more competitive.

"We want to make it a centre of excellence," says Greg Chamon, superintendent of technology at the board. "The Career Centre is already bringing the Internet in through fibre, right up to the desktop, making us one of the first non-federal government buildings in the area to do so." The Career Centre has

150 computers, serving approximately 200 full-time and 350 part-time or night students. With a capacity for up to 300 students, the centre will incorporate more computers as courses are added. One program the board particularly wants to develop will have students testing computer programs for the federal government before being officially rolled out. Alymer neighbours the Ottawa-Hull area, so the demand for such testing is high.

The board has also formed a partnership with two other school boards. This union will result in a video conferencing network that will bring math and sciences, or even a symphony, to remote schools. In the past, such offerings were cost-prohibitive due to small enrollment and limited teacher resources.

In the future, the board hopes to implement a fibre backbone for its entire jurisdiction. Currently, the city of Alymer is connected in this manner, with the city of Hull soon to follow. "It's a huge project, considering the territory we have," Chamon says. "But we are trying to use the Internet more and more for education."

The Tools

The board chose 3Com to provide. Here is the desktop in the building, as well as 3Com fibre switches, a firewall, and two fully loaded 4967 switches with 143 ports of fibre each. To keep the student body wired and up-to-date, the board is currently instituting e-mail for all 9000 students, while increasing its backbone network and adding fibre. Adding to student appeal, the Career Centre has also recently become a 3Com-certification area, running registered 3Com courses.

Choosing 3Com's Office Connect Line allowed the board to bring the Internet to rural schools in a cost-effective way. To further enhance the opportunities for the distance education program, the board is also considering the use of satellite technology to service its more northern regions.

Case studies:

1. Western Quebec
2. Calgary
3. Toronto
4. Waterloo
5. Ottawa

Calgary Board of Education

The Problem: Keeping pace with classroom needs

How can boards of education keep up with the increasing use of bandwidth and workstations in the everyday classroom?

The Solution: Central command control

Monitor networks and work stations from afar, reducing needless on-site visits, raising labor productivity and improving the classroom experience.

The Calgary Board of Education encompasses over 200 schools and two administration sites. It was an early adopter of the wired education concept. The board launched its system wide initiative for Ethernet-based school LANs (local area networks) in 1995, creating over 200 school-based LANs.

"At the time, schools were just beginning to understand the benefits of networking, so their dependencies on the LAN were low," says Mike Rinkel, senior network analyst, information technology services, Calgary Board of Education.

The Calgary board quickly realized it was no longer just a matter of a few workstations connecting to the Internet. They now had to contend with school-based servers, multi-media, sharing of electronic content between students and teachers, bandwidth-heavy administrative systems, and an explosion in the number of connected workstations. Between 1995-1998, the number of end ports doubled annually at many sites, and in some cases tripled.

"The LANs were congested, there was no staff to help out, and it was becoming very difficult to troubleshoot and solve the problems we were having," Rinkel says. As a public institution facing growth issues during a

time of government cut backs, the board needed a cost-effective solution. In 1997, the board undertook an investigation into new Ethernet LAN technologies. It concluded that 3Com switching products provided the optimal solution. "The 3Com technology was cost effective and could meet the needs of all the schools across the board," says Rinkel. "Their LAN products addressed all of our sites, from small elementary to large high schools, to our main district office."

One of the most appealing aspects of 3Com's technologies was the ability to manage and monitor the 3Com equipment from a central location, Rinkel says. This streamlined operations. Since equipment could be centrally monitored, the number of on-site visits dropped. It also helped to distinguish between LAN-based problems and desktop problems. "It actually became quite easy for us to determine which was which, so we saved a lot of time," Rinkel says.

Next up: The Calgary board wants to split its administrative and instructional networks into two separate networks, Rinkel says. Administration needs tight security, instruction needs bandwidth and speed for the classroom. "The Security and flexibility principles typically clash," Rinkel says. 3Com will again aid in the process, improving the school board's overall performance.

Sponsoring major learning events is also part of the 3Com education agenda. Calgary's Quality of Learning Symposium is a four day event dedicated to the many aspects of quality learning, including new advances in technology. 3Com also provides training and skills upgrades for school board technical staff. "We meet with 3Com on a regular basis and we're happy with them," Rinkel says. "And they tend to come to us instead of us coming to them, which is nice."

The Tools

Drawing on 3Com's Superstack 2 and Superstack 3 line of managed switches, the board incorporated everything from 16 megabit switches, to 10/100 megabit switches, to high-density gigabit fiber switches that meet and manage the escalating demands on its system. CBE could buy the appropriate switch for each type of school's needs—a 10 megabit switch for elementary schools, and maybe a 10/100 megabit switch for junior high schools.

University of
Toronto

The Problem: Size of campus

How to keep 25,000 work stations hooked together, interacting, and moving at university education speeds?

The Solution: Improved network technology

A master purchase agreement and a staggered implementation plan.

Award-winning technology was the reason the University of Toronto decided to choose 3Com when upgrades were needed for the campus backbone network three years ago.

Originally, some 25,000 Intranet stations were connected across campus. With no standardization, and wide variations in technology, the university wrestled with operational performance and speed issues. "It was a hodge-podge of technology within the buildings," says Norman Housley, manager, network design implementation and services at the University of Toronto.

To ease the transition, the conversion to 3Com technologies was done incrementally on a building-to-building basis, with individual departments converting as funds became available. Any new buildings were outfitted with 3Com technology during construction. Today, a healthy and efficient standard exists, with 95% of the local networks at the university connected by 3Com technology. "It makes performance more consistent and the operational support significantly easier," says Housley.

The Tools

A new class of technology was needed to increase efficiencies and management flexibility. "3Com was on the leading edge of the implementation of gigabit Ethernet technology," says Housley. New layer three equipment for the campus Intranet was installed, with layer two products meeting the demands of the group networks within buildings. Also, to best serve the university's needs with the greatest cost efficiency, a master purchase agreement was negotiated to include all 3Com products.



Waterloo Catholic District School Board

The Waterloo Catholic District School Board (WCDSD) encompasses 52 schools and two continuing education centres. It faced efficiency and speed problems in critical areas of Internet usage: 1) using the Internet as a curriculum resource, and 2) a tool for administrative users to access centralized applications (like accounting packages or student information systems).

The board chose 3Com to implement a high-speed wide area network (WAN). 3Com's switch solution hardware was chosen for a variety of reasons, says Sandra Quehl, CIO of WCDSD. The chief reason was the ability to provide the school board with the throughput and hardware to meet demands. Reliability with little or no downtime is considered critical to the smooth functioning of the board.

The result: highly improved efficiencies for both the board and its students. "The Internet, in terms of using it as a curriculum resource within the classroom, was extremely slow—so much so that it would sometimes take 15 to 20 minutes to load a page," Quehl says. "Now, the students are incorporating information from the Internet right into their presentations. That includes static essays and reports, right through to adding video clips to virtual presentations."

To create a comprehensive region-wide system, the WCDSD partnered with several public sector organizations in the area, including the Region of Waterloo, the City of Kitchener, the City of Waterloo, the City of Cambridge, Connors College, Kitchener Public Library, Waterloo Public Library and the Cambridge Public Library. The resulting partnership network is called the Waterloo Region Education and Public Network (WREPNET). Located in different areas across the South-Western Ontario region, it permits another redundant link to maximize uptime while increasing efficiency.

"The new network allows us to meet our curriculum requirements from the Ministry of Education," Quehl says. It also puts the board in a good position to utilize new technologies as they emerge, such as wireless solutions. "The benefit of wireless is its ability to provide equitable technology service to all areas within a school board. If we have portable classrooms associated with regular school buildings, wireless is an ideal solution to provide technology and connectivity to these portable classrooms. It would also provide for those itinerant teachers who move from school to school."



The Problem: Performance

Slow speeds and too much downtime.

The Solution: Strong networks

Allowing greater resource pooling and sharing.

The Tools

Four core "point of presence" (POP) sites were installed throughout the region, with redundant components to ensure the system would remain up and running should one core POP site fail. Each of the gigabit POP switches are connected to at least two other core POP sites, giving each core POP site multiple data paths, with maximum control and efficiency.

WREPNET has regional POP sites consisting of eight layer two 3Com gigabit switches, each with a two-gigabit connection to the core POP site. The network boasts 227 edge sites, each housing a 3Com layer three switch, with a gigabit connection to the regional POP site.

Ottawa-Carleton District School Board

The most immediate challenge was upgrading the old network—a hub-based system designed primarily for e-mail and Telnet traffic only. To complicate matters, joining the two boards resulted in an inefficient and eclectic system. "It contained a smattering of everything out there," says Ken Broomer, coordinator of voice/data communications, business and learning technologies, Ottawa-Carleton District School Board.

As the meshed organizations started sharing resources, they threw their equipment into a common pot. But this created enormous problems. "Equipment donations, no matter how noble the intent, were killing us," Broomer says.

Unifying the network was necessary to achieve the kind of efficiency and productivity the board desired, Broomer says.

Because the network was still hub-based, it was overlaid by the sheer volume of traffic. The decision was made to implement a Cyclical Upgrade Program (CUP), addressing the needs of one-third of the schools each year.

Students can now exercise their creativity in more meaningful ways. "They're doing DVD and Video Conferencing projects. They're almost like little movie producers," says Broomer. "They're making their own movies and they're sharing all these files across the network. They have midi keyboards that are connected to the network and they're downloading MP3 files. You need a high-speed network plus QoS to be able to handle stuff like that. Cutting edge, bleeding edge. It blows me away how creative and technically adept our students are."

To further increase efficiencies, the board is continuing to upgrade, replacing the backbones in the schools, getting rid of as many data closets as possible, exchanging old computers for newer models, and even entertaining the possibility of wireless technology.

"The Network is a lot more efficient and stable now," Broomer says. "Before, students were frustrated by how slow it was. Now, all I get is good feedback. They're able to do the things they want to do much more efficiently."

The Problem: Integration headaches

When educational organizations mesh, economies of scale usually don't apply to the computer systems and networks.

The Solution: Unify the networks

The Ottawa Board of Education and Carleton Board of Education amalgamated in 1998. The new board encompasses over 150 schools and four administration sites.

3Com Gigabit Switch SuperStack 3 4900



The Tools

3Com offered the most cost-effective solution for year one, allowing the board to meet their desired requirements—Switches 100Base-T to the Desktop, Gigabit backbones, and compatibility with existing 3Com equipment. "One of the advantages of the Cyclical Upgrade Program is that after each cycle we are able to review what went in, and assess the needs and requirements for the next cycle," Broomer says.

To achieve the fastest and most stable network with the greatest ease of use, the board chose 3Com's 1100 series switch technology. The transition was almost seamless, with very little downtime for any of the schools. Each school is now rewired, the Desktops have home runs back to the switches in the data closets allowing for complete management.



UBC's Chris White De Vries volunteering at a drop-in centre in Vancouver's Downtown Eastside

BRITISH COLUMBIA

WHAT'S HOT

- **Foundations:** interdisciplinary arts program that places selected group of first-year students in classes of no more than 20, taught by a team of diverse faculty members from different departments
- **The Bike Co-op:** for \$10 a year, students share brightly painted bikes
- **Thix 2002:** for-renting strategic plans enabled a volunteer program that gives UBC students opportunities to work on important organizations in the Downtown Eastside
- **UBC Milner Lodge:** inexpensive accommodation for UBC students at \$15 an evening, \$19.25 on weekends, and the UBC-Six & Board Club discounted concert passes at \$29

WHAT'S HOT

- **No smoking:** in campus bars
- **Student housing:** in short supply
- **Sparking 400:** because campus had talking between classes
- **Engineering studies:** annual job three-time minimum of \$5, delivers a pre to a third of entry who takes it in the first or plays the accumulated sum of donations plus \$5 to have it submitted to another person. Rated \$5 100 for charity last year
- **Protested Dan:** the beloved campus bus, with sleek new hooded from
- **Online teaching:** evaluations

WHAT'S HOT

- **Overweight:** standing now only in many lecture halls and MacGowan Student Centre. Dan hallway: are hard to negotiate

BROCK

WHAT'S HOT

- **Hot End:** residence, a new 250-bed, single-room residence
- **Coal Climate:** Ontario and Victorian Institute: houses the unique bachelor's program in wine-making
- **New faculty:** applied health sci-

ences, features wide range of programs, including interdisciplinary research, health and disability studies

- **Disability:** job skills program enhances employability
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WHAT'S HOT

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CAPE BRETON

WHAT'S HOT

- **Prof. Lee Anne Broadhead's:** Tempers and Security Policy course: full to

CONCORDIA

WHAT'S HOT

- **Space crunch:** temporary classrooms in middle-class suburbs for classrooms inaccessible due to an ongoing construction boom
- **Teacher shortage:** graduate students attract second-year classes while fourth-year students serve as teaching assistants
- **\$2 evidence:** for twenty adult games
- **Tim Hortons:** new coffee and doughnut service is an attempt to displace student-run food carts, which contribute proceeds to student services
- **It's not the controversy:** the long-standing Red Sox/River Resurgence pub, converted to the amateur Chronicleville Grill this summer, has become the de facto faculty lounge (after lunch eat) previous space closed and re-opened as Tim Hortons

CONCORDIA

WHAT'S HOT

- **Activist:** grassroots groups, including the leaves-oriented (Quebec) Public Interest Research Group and the Society for Palestine Human Rights, are gaining in popularity
- **Le Figeo:** first student-run food service also includes a small library and evening lounge
- **Reggie's:** the student-run campus pub features popular jazz jams and the engineering students' Lured Lounge on Friday evenings
- **The Link:** student paper, recent spot issues featuring parodies of Monty Python's *Graham's*, the *Maclean's* and various Concordia publications was a big hit



Le Figeo, Concordia's student-run natural-food co-op

■ **The 2000-2002 Concordia Student Union handbook:** Opening: becomes latest collection item as all 14,000 copies snatched up and controversy over sexual contents

WHAT'S HOT

- **The same 2000-2002 Concordia Student Union handbook:** Opening: becomes latest collection item as all 14,000 copies snatched up and controversy over sexual contents
- **The CSU itself:** more than 3,000 students signed a petition in December calling for a new election of the student union executive after allegations of mismanagement, including misrepresentation, principal Barbara Stein resigned, citing interference from administration
- **Stalemate:** between suburban Loyola campus and downtown St. George Williams campus although bus service is not frequent enough during peak times

DALHOUSIE

WHAT'S HOT

- **Professional programs:** popular pharmacy program expanded to accommodate overflow
- **Faculty of Arts:** engaged a new season—more than 30 per cent surge in number of first-year students this fall
- **Non-traditional programs:** a new season transition from high school to university by going both with third- and fourth-year students in the same discipline
- **New \$23-million:** Marion McCain Art and Science Sciences Building, features a modern language lab and two auditoriums
- **Warner's sponsor:** CSU change the past two sessions, made it to the championship again this year
- **Non-out infrastructure:** \$184 million in deferred maintenance
- **Students:** break-in at Marion-McCain Building, while under construction caused nearly \$1,000 damage

QUEEN'S

WHAT'S HOT

- **Griffiths men's and women's:**



Montreal's concrete tubegun team

A CRASH COURSE IN INGENUITY

For the past 26 years, engineering students from across North America—most recently, Dalhousie—have participated in The Great Northern Concordia Tubegun Race. Students must construct a flexible tubegun, keeping several rules in mind: all running surfaces must be made out of concrete, the tubegun must weigh less than 136 kg when empty, and it must accommodate a five-person team. Next, however, the event will be hosted by the University of Manitoba in Winnipeg, where 400 participants from more than 20 universities and colleges will be judged on team spirit, individual design and above all, styling speed, with the design contest as fast as 60 km/h. Team members also get a credit course in marketing (they must secure corporate sponsorship and raise funds to cover construction and travel costs).

The event is anything if not successful. One of this year's winners

was Team Tubegun, whose creation was dismantled and brought over in suitcases by German and Austrian students from three universities. Meanwhile, the Fugitives from UBC headed home with their first-place trophy and immediately looked for another plan. Days later, a group of uninvited UBC engineers made a last-minute twist when they suspended a VW Beetle from San Francisco's Golden Gate Bridge. Who knew if it was the same guy who read the *concrete tubegun*? One way or another, give the engineers an A for ingenuity.

WHAT'S HOT

- **New East Village campus:** residence more than 60 residents had to set up temporary digs at local hotels when the building remained unfurnished in September
- **Cityville:** days pass, university students enjoy huge discounts
- **The Ball Ring:** an on-campus party venue
- **College Bay:** Ontario's largest student-run open house and regional fair attracts 30,000 visitors each spring

LAKELAND

WHAT'S HOT

- **Concurrent education program**

- **allows students:** complete a bachelor's degree and another bachelor's degree simultaneously
- **Faculty of Forestry:** great national and international co-op opportunities
- **Academy Park:** off-campus accommodations right at the university's doorstep (though rent and utility of parties)
- **Philly Central:** a safe space and resource centre for lesbian, gay, bisexual and transgendered students
- **\$33 million:** in deferred mainte-



Mount Allison's Tantravish pub, with coed machines in both men's and women's washrooms.

their social events
■ The *Music student newspaper* and *CNN FM campus radio*

WHAT'S HOT

- New levy: mandatory \$40-per-term recreation fee for the construction of a new facility-building
- Employment situation: hard to find summer jobs
- Threat to Williams' program: is danger due to lack of volunteers

MONCTON

WHAT'S HOT

- *Rosetta Studies Centre*
- Education program: graduates are strapped up to teach French immersion across Canada
- Law school: first to offer English common-law studies in French
- L'Odéon: the student pub has been renovated

WHAT'S HOT

- Draft choice: exclusivity deal merits C-Dease has only 100-odd based on top
- English materials and books for courses taught in French

MONTRÉAL

WHAT'S HOT

- *CNN 98.3 FM*: broadcasting at

10,000 times over a range of 80 km, it's North America's largest French-language campus-radio station
■ Party 2-stages: this two-floor party straddles 2,500 students at the beginning of each semester

■ The Beer Olympics: invite invite for points in drinking-related activities, including building pyramids out of beer cans

WHAT'S HOT

- Ninety sports, low program: little for support
- Distance from downtown: half an hour by subway and the metro stops at 11 p.m.

MOUNT ALLISON

WHAT'S HOT

- This fall: bid to set the standard for the longest continuous toque-shooting event, with 200 students donning their shoddy in sequence, Guinness World Record officials are reviewing the videotape
- Coed machines: installed by popular demand in both men's and women's washrooms in campus pub (Levi's)
- Conduct because: compilation of original songs by Mount Allison artists and musicians, with all pro

ceeds going to cancer research
■ Campus radio: CIMA 100.9: pirate station in the '80s turned AM in the '90s now rebroadcasting 15 years on the air as an FM station

WHAT'S HOT

- Gender mix-up: the first group of male freshmen in the formerly women-only residence (Horton House) found no service but plenty of sanitary napkins (disposal units in their washrooms this fall)

■ The doctor is not in: with no on-campus health clinic and few timely physicians in Sackville, students use Sackville Memorial Hospital for basic outpatient care

■ Rhyline 362: residents lobby for Sackville to use legislation to ban it, newly enacted after a noisy outdoor concert during last year's folk week irritated neighbours

MOUNT SAINT VINCENT

WHAT'S HOT

- Four-year bachelor's degree in public relations: billed as the only degree of its kind in Canada
- Clayton Park area of Halifax: affordable off-campus housing
- The writing: speculative-fiction news, some wacky

WHAT'S HOT

- The mountain: despite the scenic view, it's a steep climb from class to class
- Residence: available; extremely tough to get a spot

NEW BRUNSWICK

WHAT'S HOT

- Swimming program: Carla Gauril, the 30-year-old kinesiology and bio-medical engineering PhD student was a finalist at the past two Olympics and this year's world in Japan, set the CWU record for 800-m freestyle in 2001
- Mechanical Engineering Center: UBR engineering students demonstrate their skills by building cars and racing them down campus hills

WHAT'S HOT

- Saint John's computer campus: dies in the evenings, even (Cable) Kicker's campus pub closes at 6 p.m. on weekends

■ Rental accommodation: record-low vacancy rates in Fredericton and shortage of residence space leaves some students living in a converted hotel

NIPISSING

WHAT'S HOT

- Residence: space, first-year students guaranteed a private room
- Library hours: open till 11 p.m. on Fridays and weekends

WHAT'S HOT

- Rental system: In-house service and early shutdown make living off-campus a pain
- New laptop computers for education students: auxiliary fees apply for \$1,500

NORTHERN BRITISH COLUMBIA

WHAT'S HOT

- The Address: Residence, where students maintain a constant space
- Approachable professors: even on Saturdays
- Examinations week: Hester and Wallace Center offers free snacks, study tips and activities
- Show up: anthropology professor Michel Beaudin takes students

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to live in native student housing communities

■ **Yrs. Virginia/No. Virginia:** annual dorms has students and profs enjoying the view of Santa's existence
WHAT'S HOT

■ **Luck of on-campus sports facilities:** hockey team plays at municipal rink, basketball teams play on campus, rugby teams played for time at local high schools

■ **No student union building and, worse, no campus pub**
■ **Fighting the internet:** about 100,000 not to find mouse and black bears on the campus grounds

OTTAWA

WHAT'S HOT

■ **Toronto's Raptors (aka Kidz) set:** many on campus stress OCE's *Rocky Horror* has hosts telling students in response not wearing their costumes

■ **Jackie Two-Ten:** popular local rock band

■ **\$20-Kinase and/or sports complex:** two new ice surfaces, full-sized soccer and football fields

■ **Library hours:** open until 11 p.m. during final two weeks of each semester and exam periods

■ **Survivor!** ■ **Survivor** in January 19 students will spend 48 hours performing *Survivor* challenges, prizes include a digital camera, vacation trip for two to Cancun, Mexico

■ **Student Federation of the University of Ottawa:** professional appreciation were-and chess night

■ **Registration Manager:** a new online registration service

WHAT'S HOT

■ **Final transition:** this year's Clubs Week was postponed after the Sept. 11 attacks over concerns for cultural and religious groups rescheduled for later this month

■ **Housing facilities:** students from Ottawa's low vacancy rate and a record setting weekend waiting list that surpassed 3,000 in July, those who signed leases of campus integrated in on-campus spots later "opened up" when students forfeited their \$300 deposit, donated the space church,

The roar of the greasepole

It's known as the Queen's greasepole. And, yes, it is back in its original form—according to some. In 1995, Queen's engineering department built the greasepole from the University of Toronto and instituted a tradition: challenging fresh students to scale its height and retrieve a Queen's lion, nailed on the top. In previous years, the 7.5-m pole, encased in a tight shell with such vile substances as animal carcasses and manure, was shrouded with more often in green. But after 1998, the 300 students were told during the climb in 1994 Queen's and knew: these materials. Now, the pit contains only mostly water and lard. It is used in the year.

Last fall, U of T engineering students returned the greasepole. But in January 2001 Queen's students enjoyed a successful greasepole recovery



Photo: Graham

OTTAWA

WHAT'S HOT

■ **Wendy's night:** with whom Lorne Adams—aka Big Daddy Cool—at The Panther Lounge

■ **Wishful of Island Studies:** promote understanding of island culture and attracting researchers from around the world

■ **Bachelor of Business in Tourism and Hospitality program**

■ **The Cedar student newspaper:** enlightens readers with interesting news

WHAT'S HOT

■ **Beloved homegrown band:** The Rude Mechanicals (aka Rude) Toronto

■ **Saturday night exams:** students writing as late as 9:30 p.m.

■ **Refrigerator:** students' camp in Somerville Hall doors back to 1998

QUEEN'S

WHAT'S HOT

■ **Student-run charities:** Web site *CharityLink* has raised more than \$500,000 for New York City disaster relief and Afghan refugees

REGINA

WHAT'S HOT

■ **Copious:** Stuchard a member of the 2001 CML championship winning Goughy women's basketball team, the 30-year-old third-year student

Reaching for the top of Queen's

operates at U of T's St. Basil's Fleming building where the pole was in display. And this fall, the tradition is restored, with a crowd of people-eyed

OTTAWA

WHAT'S HOT

■ **Residence options:** living/learning rooms, shared with others enrolled in the same discipline, theme floors such as French or internationalist, or so-called study floors

■ **The Redneck:** Queen's built a new-powered car on wheels Canada from Halifax to Vancouver in 39 days, the longest trip by such a vehicle

WHAT'S HOT

■ **Try run:** a new policy bans open bars—most unlimited drinks—at all on-campus events, including university forums and faculty gatherings. The policy was implemented this fall to ensure the university meets its legal obligations as a liquor licence holder

■ **Residence fees:** \$7,321 annually for a single room with 35 meals per week, plus a \$67.50 residence society fee, means Queen's on-campus housing one of the most expensive in Canada

HYEDSON

WHAT'S HOT

■ **Media programs:** very popular, from single arts to radio and television arts. Journalism fielded 2,500 applicants for 120 available spots this year

■ **DNB/BS/IRI award-winning:** prize radio station

■ **USAR:** Cuban American Students

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Regina's Cyrene Bouchard

Association at Yorkton; free dance lessons, including salsa, cha-cha and mambo.

WHAT'S HOT

- Class scheduling: some begin as early as 8 a.m., especially popular for commuter students.
- Co-educational: syndromes makes after-school campus events difficult to organize.

ST. FRANCIS XAVIER

WHAT'S HOT

- Box Crew: Blue-jointed Mechanics House residents stir up crowds at sports events.
- Varsity athletes: live out of 10 buses, made it to the CHU nationals last year—women's cross-country, rugby and hockey, men's basketball and hockey.
- Narrative: in Film and Fiction course, aka Monday night at the Movies.
- SuperDab: a two-floor party at the Student Union Building, with live bands three open bars.
- WHAT'S HOT
- High tuition.
- Mandatory undergraduate technology fee doubled this year, from \$130 to \$200.
- Administration decided to prevent the publication of a student directory this September over privacy concerns. But the student union collected more than 1,000 signatures as a petition, forcing admin to reverse its decision.

SAINT MARY'S

WHAT'S HOT

- Philanthropy: for three days, the university housed a red-hot 150 British Airways passengers en route to Halifax on Sept. 11, they also set up a telephone and a mail station as the visitors could contact loved ones.
- Living it Local: the renovated first-year residence houses 1,200 students, offering shared cooking facilities and weekly floor events.
- Orientation Week: includes an all-night event in the gym featuring a casino games and movies.
- Co-education: program constitutes one-third of all students enrolled at Saint Mary's.
- All-night basketball competition: a highlight of the annual Winter Carnival.

WHAT'S HOT

- Directors at Husky Stadium: in dire need of repair.
- Cleftville Road: few vegetarian options.

ST. THOMAS

WHAT'S HOT

- Aquatic Program: gives first-year students education from a team of three professors in a specific, yellow-thriller, featuring cat-alanine learning.

- Applied-into degrees in journalism, criminology and criminal justice.
- Criminology outreach: new 13-week post-degree program in social work includes a 300-hour practicum in the field.

WHAT'S HOT

- Major congregation: the double-decker reporter to Edmund Casey Hall was reduced to one wheelchair accessible door last year, causing long line-ups as students try to get in and out between classes.

SASKATCHEWAN

WHAT'S HOT

- Native spirit: annual welcoming powwow with concurrent of type rearing and hoop-dancing.
- Canadian Light Source building: home of the \$174 million synchrotron held its grand opening in February.
- Ag Bag Day: a big annual party hosted by agricultural students on the Saskatchewan Exhibition Grounds.
- Bulkinon: drinking more than 1,600 members.
- WHAT'S HOT
- Thebery: a one-of-a-kind Huskie beer mascot outfit, including oversized earflaps, T-shirt and collar, disappeared in a bar in this fall.

- New Student Centre: Building in timbo \$14-million copacetic apocryphal funding not secured.
- Back-to-back tuition increases: a 15 per cent hike in 2000, with a steeper bump planned for 2002.

SHERBROOKE

WHAT'S HOT

- Co-op education: more than 1,000 students registered in paid placements.
- Mast Guard: taking only 20 minutes away.
- Winter carnival.
- WHAT'S HOT
- Public/secret: university radio ends at 11 p.m.

SIMON FRASER

WHAT'S HOT

- Whistler fall session pass: \$290 for full-time students, available to peers and graduates at less than half the regular price.
- Computing sciences: so popular that students routinely wait two or three terms to get into many first- and second-year courses.
- Arthur Erickson's stylish campus: provided perfect location for an episode of *Andromeda* TV series.
- Athletic: excellence: combined

**THE CUSTOMER IS ALWAYS RIGHT.
AND ALWAYS AWAKE.**



Byron's broadcast journalism students practice their skills on the set of a mock news show



efforts of Olm sports teams brought home the Sears Roebuck Cup for 1999 year in a row.

■ **S&P Vegetarian Club:** All you can eat lunches for a suggested \$4 donation.

WHAT'S HOT?

■ **DemLark:** public-access provider lets out late-night service from downtown Vancouver.

■ **Seaspoon firm:** a service-per-plate increase came into effect this month, further hikes are expected.

■ **New downtown home for School for the Contemporary Arts:** on hold classes held in scattered porches.

TORONTO

WHAT'S HOT?

■ **CUT 88.5 PM's:** new 12-hour night/overnight Internet radio broadcast is happening, live and high tech.

■ **Chorus student program and Irish College:** continuing to work with the fall's weekly film series Understanding Ireland.

■ **Security:** after two small assaults at Whitney Hall, a downtown residence, U of T provides 24-hour porter service, self-defense workshop for women and preschools in residence dorms.

■ **Political and cultural threat:** Mark Kington, a writer and philosophy professor.

WHAT'S HOT?

■ **Student Administrative Council election:** specialist Alex Kerner became president as his only serious competition—a hand puppet called Webbit.

■ **Animal house:** white powder is an encephalitis at the Jewish Students Union at University College sparked an encephalitis in October.

■ **Taxist firms:** cash-strapped students lobbying for discounts.

■ **Mandatory sign-in:** at Harna Hagan, mandatory sign-in means drinking charges last semester and when it's the presentation of a policy requiring students to sign to let when they enter.

TRENT

WHAT'S HOT?

■ **The friend:** renovated pub in downtown



St. Francis Xavier's Zoo Crew strip to their skivvies and paint themselves blue for sports events.

lower Catholic Perth College.

■ **New studios:** in globe-fishing program.

■ **Location:** swimming in the Ocean, late-night tap-dancing on a coffee table.

■ **Gridding:** wind-whipped Fanny Bridge.

■ **Impairing:** sale of the downtown college, students say it will be like being a lion.

■ **Amade:** police busted eight students when they occupied non-protest's office in a three-day protest over cooperation and other issues early this year.

Webbit, presidential candidate in U of T's student election

VICTORIA

WHAT'S HOT?

■ **\$3.7 million:** Centre for Innovative Teaching, equipped for multimedia and Internet-based instruction.

■ **Centre for Global Studies:** replacing sustainable development and natural security.

■ **U PASS:** gives students unlimited access on all Greater Victoria buses for less than \$12 a month.

WHAT'S HOT?

■ **Threats:** to individual tuition fees, students' anxiety about after voters turned the NDP government out.

■ **Weather:** a lack of rain and the deposition of water restrictions last summer rendered the lush campus a desert shade of brown.

WATERLOO

WHAT'S HOT?

■ **Co-op education:** billed as largest program in the world.

■ **Downtown:** residence for all first-year students.

■ **Study abroad:** most buildings are open 24 hours, offering students virtually unlimited access.



■ Oshes long list includes the Buffy Watchers Club for fans of the various dials, and the LW Swing and Social Dance Club

■ The on-up effect: the quick turnover of students produces little fan support for vivacious spots

WESTERN

■ Perip calendar featuring semi-dial comic and female Western students. 4,000 copies are being sold to state \$40,000 for New York City

■ Richard Key School of Business

■ Media, Information and Technology: popular new bachelor of arts program

■ Clubs: more than 16,000 students in more than 100 different clubs, from the World United Nations Society to the Western Juggler's Club

■ Western Film at the Haskett Theatre: campus cinema features \$2.50 movies on Tuesday nights

■ WAT's NW

■ The Code of Student Conduct: many first-time students provisions of the new document governing the actions of Western students include

—specific rules concerning off-campus behavior

■ But service to campus: inadequate from all points in downtown London

■ Housing: nearly 20 students relocated to off-campus rooms in study areas and a faculty lounge in the Delaware Hall residence, 22 moved when proper accommodations were eventually found, but we preferred to stay off

■ Wilfrid Laurier

■ WAT's NW

■ The Laurier School of Business and Economics: integrated case studies give first-year students a work to solve a genuine problem facing a real company

■ Music: weekly one-on-one sessions, plus many performance options

■ School spirit: this year, the student union received 1,200 applications for 1,300 voluntary positions

■ Commence scholarship bid: addi-



Musings at the University of Winnipeg's photo club

matic awards for students with at least an 87.5 per cent average in business and kinesiology, 80 per cent in other programs

■ WAT's NW

■ Overcoming: with increased enrollment putting a strain on student services and classical academic norms built for two low accommodation rates

■ Windsor

■ WAT's NW

■ CJA Student Centre: open 24 hours, perfect for late night studying, home of Orientation Week party—with three floors, there's electronic space for maximum partying

■ The Tandy Schiller: new campus job with a huge dance floor

■ WAT's NW

■ Fitting priority students started living up before 8 a.m., bringing

role and two-hour waits to get parking spaces flooded at the end of August

■ York

■ WAT's NW

■ Tailwind Student Centre: open 24 hours during winter

■ The Photo Club: \$40 buys unlimited access to a photo lab, digital film and a colour from fellow shutterbugs

■ The Peabody Club: used books at a fraction of the regular price

■ WAT's NW

■ Beer prices: after popular 31-drink nights at nightclubs contributed to the death of a University of Winnipeg student last year, the province slapped a \$2.25 minimum on alcoholic drinks in all bars

■ Crumbling: study at Wesley Hall, the administration building

■ Scholastic School of Business: 4,800 applicants compete for 360 first-year business administration places

■ Seneca College: a shared venture with Toronto's Seneca College offering programs in such fields as computerized art, communications arts and early childhood education

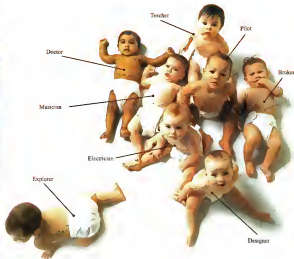
■ The School of Women's Studies: boasts close to 1,200 students

■ WAT's NW

■ Denby campus: Score wind turbines

■ Thesis: buses operate infrequently especially at night, making the labor bus campus term all the more tedious

■ Niagara: football team: potential basketball division



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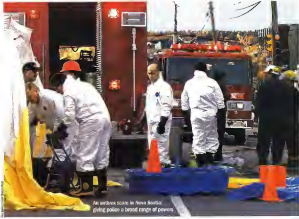
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Canada and the World



An arduous scene in Nova Scotia
giving police a broad range of powers.

CROSSING THE LINE

Critics say Ottawa's anti-terrorism act declares open season on civil liberties

BY JULIAN BELTRAME in Ottawa

I was second guess that Justice Minister Anne McLellan happened to unveil her sweeping anti-terrorism bill on Oct. 15. As she introduced the 171-page omnibus bill inside Parliament's Centre Block, RCMP officers outside were sealing yellow plastic tape carrying the ominous warning: "Caution chemical hazard." The security measure was in response to an arduous scene—later proven false—when two Parliament Hill workers came down with skin rashes while installing rail. "People who live in fear of their personal safety cannot live in a free and democratic society," McLellan intoned gravely. Given the still-fresh memories of

the Sept. 11 carnage and spreading fears of bioterrorism, few argued with her assessment of the deadly threat.

A month later, the world remains a scary place. But the mostly positive early review of McLellan's tough anti-terrorism act

have given way to a rising chorus of critics, ranging from quibbling concerns to outright denunciation. The attack reached a crescendo last week when spokesmen for 650,000 Muslim-Canadians, who say their communities are already facing backlash because of Sept. 11, threatened the bill is open season on them. They recalled how Canada treated Japanese-Canadians during the Second World War—and claimed the same thing could happen to them. "You might as well delete the Constitution from our landscape," Rocco Galati, the combative lawyer representing the Canadian Islamic Congress, told a Commonsense committee.

According to civil rights activists, Muslims are not the only ones who should be



McLellan says we must be proactive

PHOTO BY JEFFREY M. HARRIS

concerned. With McLaughlin anti-terrorism initiative, they say, police will be able to sample on rights. The bill gives investigators powers rarely contemplated in Canadian law. They include allowing police to detain terrorism suspects for 24 hours without laying a charge—with a possible extension of up to 72 hours. As well, Canadians could be compelled to give sworn evidence about possible terrorist activities. "I was a prosecutor, so I know what's going to happen," says Joseph Magnat, now a constitutional law professor at the University of Ottawa. He says that police keep watch on some 350 people who are other suspected terrorists or thought to have ties to terrorist groups. "They are going to round them up and ask them, 'Who are your friends? What do you know?' If they don't answer, they'll detain them."

Magnat, who has given testimony before Senate and House committees studying McLaughlin's bill, believes it could allow police to open up a debate about the use of physical force on suspects. Such measures are hard to imagine under present circumstances, he admits. But suppose police have evidence that a homicide terrorist acts in days or hours away—and have an uncooperative suspect in custody. "If we're sufficiently frightened, physical means could

be used on these people to get them to answer," he says. "I don't think this is who we are or who we want to become."

To be sure, most critics have been more measured. Still, McLaughlin is worried enough that she complained to *Maclean's* in an interview that the media is playing up emotional claims while largely ignoring the positions of those who support the legislation, like Jewish groups. "What appears to be going on here is the reporting of criticism about the legislation and under-reporting of the pretty strong support for this legislation," she said. The justice minister conceded, however, that she is willing to listen to all arguments before her package goes before the House for a final vote, perhaps by early December.

But there are, so far, no signs that the growing bill will be substantially altered. McLaughlin contends that she's walking the

fine line between addressing the country's legitimate security needs and protecting civil rights. She notes that the police have extraordinary powers now, yet rarely abuse them. The police need new tools, she insists, because unlike most laws that are designed for after a crime is committed, the anti-terrorism act must catch criminals before they strike. "Yes, it calls for a change of mind-set," she argues. "If there's anything we learned on Sept. 11, it's that if the terrorists are on the plane, it's already too late."

Any amendments that are in the offing appear to have more to do with how the bill is implemented, rather than wanting down the new powers it creates. That was the thrust of a Senate conference headed by Liberal Joyce Fairbairn, which on Nov. 1 tabled its report on the law to opposing reviews from the *Canadian Alliance* and

the Progressive Conservatives. More important, McLaughlin called Fairbairn's report "a useful document," a clear indication the government is willing to modify what it considers reasonable critics.

The Senate report would place a five-year sunset clause on many aspects of the bill. It calls for additional review mechanisms to guard against abuse. For instance, the committee wants Parliament to appoint an independent officer to monitor how the new powers are being exercised. As well, any non-operative terrorist sus-

pect who was arrested but not charged under the new law would get speedy appeal of court-ordered bail conditions. And the Senate report urges an independent review of the list of terrorists the government would draw up under the act. Finally, the report proposes that the Federal Court be empowered to review any decision by the government to use the law's secrecy provisions to hold back information normally available under the Access to Information Act. "If we're going to have special powers, we need special safeguards," Fairbairn said.

Such checks and balances—even if they are all adopted—won't satisfy McLaughlin's more vociferous critics. But she is not about to back down from the legislation's aim of "defeating terrorism and making sure those who support terrorism don't find success in this country." She's confident most Canadians fear terrorist attacks more than theoretical abuses of power. Should terrorists strike again, that sentiment will be reinforced. And civil libertarians and others must hope their worst fears don't come true.

IN NEED OF A VICTORY

A few days of intense round-the-clock bombing and Taliban positions by U.S. warplanes, Afghanistan's opposition forces said late last week they had finally entered the strategic northern city of Mazar-i-Sharif. If the Northern Alliance can successfully hold the city, it would give the U.S. access to an airbase and allow it to amass ground troops in preparation for attacks on Taliban strongholds in the south. American bombers also provided troops around Kabul and Kandahar and intensified the Dajai Ghat, a sensitive 35,000-ft. border into a campaign that, after six weeks, appeared at last to be taking its toll on the Taliban.

A victory at Mazar-i-Sharif would badly weaken the Taliban, which has been heavily criticized over its inability to dislodge the Taliban or capture terrorist mastermind Osama bin Laden. In a satellite address to a conference of Eastern European leaders in Warsaw, George W. Bush warned that bin Laden would be stopped before he



AP/Wide World

develop a wide nuclear weapon. Officials also believe he is trying to develop given warfare capabilities even as the U.S. struggles to contain the spread of anthrax, which has killed large groups and injured at least 13 others. While the anthrax attacks appear to have stopped, investigators were hunting for the perpetrators, whom they speculate may have died after breathing infected. The FBI was looking into suspicious deaths in New Jersey, where two of the letters came from, in hopes of identifying the killer.

The U.S. also took a major step towards blocking the flow of money to bin Laden's Al Qaeda network. Officials believe operators of currency exchange houses in London, which are

used by Somali residents in 40 countries to send money home to relatives, are skimming funds for Al Qaeda. One financial institution, Bankwest North America Inc., has offices in Ottawa and Dorchester, Mass. U.S. officials suspect it is tied to Al-Burakani—a conglomerate thought to have links to bin Laden. The Ottawa branch, which operates out of a grocery store, transfers up to \$80,000 a month. But Sheriff Abdellah, who runs the bank, dismissed allegations of impropriety, saying transfers are needed because the Somali banking system has been destroyed by war. "If you send money to your mom, is your mom a terrorist?" he asked. "I don't know Al Qaeda."

Don Parnell

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Buck Owe, Kabul, 1970s. The
Afghans have a great
blow to bits by mass

A TIME BEFORE WAR

Afghanistan in the early 1970s was not Shangri-La—but it was intoxicating

BY JAMES DEACON

In a small grove of orange trees near the corner of Jaldad, a crowd of 30 or so had gathered in a tight circle to watch a magician perform. The kids who squeezed through to the front laughed and clapped at the amplex tricks, and everyone loved the bag finale, except perhaps the men who agreed to take part. The magician uncoiled the volunteer's turban, unwound it with a great flourish and smothered it into a ball in both hands. Then, springing up, he tossed it high into the air where it burst into flame and vanished altogether. The audience roared with laughter and applauded, but the volunteer

was angry—until the magician dipped a hand into his vest and slowly pulled the full length of the turban out of an unseen pocket. That got the biggest cheer of all. Laughing Afghans? Hard to imagine. Things are so bad now that many and official wonder if the country can be salvaged even if the U.S. led coalition succeeds in ousting Osama bin Laden and the ruling Taliban. In another tale, I spent a month there, arriving on New Year's Day in 1973, prior to the fall of King Mohammed Zahir Shah, before the country began being ravaged by revolution, war and famine.

It was not Shangri-La. Most people were poor beyond anything I'd seen be-

fore, there were few paved roads and even the comparatively modern streets of Kabul, the capital, were lined by open sewers. The state of public health was atrocious—a staggering percentage of Afghans suffered from intestinal disease, tuberculosis and cholera, and the infant-mortality rate was just about the world's worst. In Kabul one day, after my friends and I had come to a soap at an antiques shop, a boy of 9 or 10 approached the passenger side of the van begging for "insharrah." I didn't notice the emaciated hand because of his astonishingly disfigured face—his nose had been eaten completely away by leprosy, leaving a blackened crust of a scar above his upper lip and between his eyes. I



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1. Science
What does the chemical composition H₂O
stand for?

- a) Hydrogen Oxide
- b) Hydrogen Oxide
- c) Hydrogen Oxygen
- d) Hydrogen

2. History
What is said to be the first to melt
Wagner's?

- a) Wagner's
- b) Wagner's
- c) Wagner's
- d) Wagner's

3. Geography
What is the longest river in Canada?

- a) Mackenzie
- b) Yukon
- c) St. Lawrence
- d) Nile

4. Arts
What film did not feature music?

- a) Water World
- b) The Water Gate
- c) The Water Gate
- d) The Water Gate

5. Sports
Canadian Canada made even to Olympic gold
medal in what sport?

- a) Water polo
- b) Water polo
- c) Water polo
- d) Water polo

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NO to 1, 1 to 2, 2 to 3, 3 to 4, 4 to 5, 5 to 6, 6 to 7, 7 to 8, 8 to 9, 9 to 10, 10 to 11, 11 to 12, 12 to 13, 13 to 14, 14 to 15, 15 to 16, 16 to 17, 17 to 18, 18 to 19, 19 to 20, 20 to 21, 21 to 22, 22 to 23, 23 to 24, 24 to 25, 25 to 26, 26 to 27, 27 to 28, 28 to 29, 29 to 30, 30 to 31, 31 to 32, 32 to 33, 33 to 34, 34 to 35, 35 to 36, 36 to 37, 37 to 38, 38 to 39, 39 to 40, 40 to 41, 41 to 42, 42 to 43, 43 to 44, 44 to 45, 45 to 46, 46 to 47, 47 to 48, 48 to 49, 49 to 50, 50 to 51, 51 to 52, 52 to 53, 53 to 54, 54 to 55, 55 to 56, 56 to 57, 57 to 58, 58 to 59, 59 to 60, 60 to 61, 61 to 62, 62 to 63, 63 to 64, 64 to 65, 65 to 66, 66 to 67, 67 to 68, 68 to 69, 69 to 70, 70 to 71, 71 to 72, 72 to 73, 73 to 74, 74 to 75, 75 to 76, 76 to 77, 77 to 78, 78 to 79, 79 to 80, 80 to 81, 81 to 82, 82 to 83, 83 to 84, 84 to 85, 85 to 86, 86 to 87, 87 to 88, 88 to 89, 89 to 90, 90 to 91, 91 to 92, 92 to 93, 93 to 94, 94 to 95, 95 to 96, 96 to 97, 97 to 98, 98 to 99, 99 to 100, 100 to 101, 101 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Canada and the World

was, was down the hall. There was a shower, but it only had a few extra shelves (the currency, not the people) to get one of the hotel staff to build a line under a big iron water tank.

So much of the country seemed to have completely missed the past 600 or so years. In many towns, donkey carts outnumbered cars. It was often tough to tell the ancient ruins from the functioning buildings in places like Ghazni and Mazar-i-Sharif. Yet obvious signs of Cold War politics were everywhere. The superpowers were waging a not-too-discreet battle for influence in Afghanistan because of its strategic location, bordering on the Soviet Union, China, Pakistan and oil-rich Iran, then still controlled by the U.S.-supported shah. The Soviets and Americans had established huge walled compounds in the capital, and tried to buy favour with the king and his parliament with foreign aid hand-outs. They even dipped in to build the first north-Afghanistan paved highway. With the Soviet invasion in 1979, that already foreign competition for influence grew into a devastating battle for absolute



Ruckstuhl makes hockey look field

control. And the war is bloody history.

Unlike in some neighbouring countries, the people we met were mostly friendly and welcoming to us. Caravan, too—yours was a useful as service to them as theirs was to us. One day in Kabul, I helped a friend who had a throat infection find a hospital where, we were assured, there was a doctor who spoke English. That turned out to be an exaggeration, but a man who we think was a doctor did examine her and prescribe some penicillin, and she did eventually get better. During the long wait for the examination, we were alone except

for another young couple. We smiled and used our basic command of Pashto to exchange how-are-you. After a while, the woman took off her veil—a rare event and, we were told later, something of a compliment to us—to reveal that she had a scar on a broken arm. They asked about where we were from and what it was like. We did our best to explain, although I'm not sure how much of it they understood. It was a sweet moment.

It was a different time and such a different place. But since Sept. 11, and especially since coalition forces started bombing, I have been thinking of those experiences a lot. So much has changed, yet I'm certain some things haven't. If a small effort ever got around to the post-war reconstruction of the country, they shouldn't try to fix what's broken. The infrastructure has to be rebuilt, the government and public-health facilities should be replaced, and after years of drought, a hungry nation needs food. But given half a chance, the people of Afghanistan will be just fine. ■

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Irwin shows his company's face-recognition software.

The electronic eye view

The war on terror is making surveillance systems more popular than ever

BY CHRIS WOOD in Vancouver

Run afraid of the Royal Canadian Mounted Police at Toronto's Pearson International Airport and you'll end up in a windowless looking room in the bowels of Terminal 1. You'll be fingerprinted and stood in front of a camera that will take pictures of your face in full view and in profile. So far, so conventional for police agencies around the world for many decades. What's different is the software on the booking screens: computer command. While you're still blinking from the car-

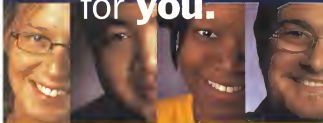
ten flash, it's comparing the picture of your face to hundreds already stored in its database. If someone who looks like you has been arrested at Pearson before, perhaps under another name, or is known to be wanted by police, the software alerts the booking officer.

For now, the Canadian-made software employed at Pearson is of limited usefulness—it searches only the mug shots the Toronto airport division of the RCMP has collected. The system—like the installing hundreds of public and private video cameras—was supposed to aid in

day-to-day law enforcement. In London, Ont., and Calgary, among other places, police are trying with installing full-time video surveillance systems on watch over city streets. But since the Sept. 11 terrorist attacks on New York City and Washington, the demand for tighter security—particularly more effective and ubiquitous surveillance—has soared.

On many security agencies' wish lists is face-recognition technology that can identify people from images caught on security cameras. Ideally, it would integrate separate mug-shot collections from around the

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world. RCMP Cpl. Larry Foy says the existing computer in Pearson, for instance, ought to be tied to wider databases of suspected terrorists. "It would be an ultimate goal to have linkage with sister agencies," he says. "The only thing holding us back now is probably cost."

That, and privacy concerns. The notion of faceless watchers monitoring ordinary citizens in their daily rounds goes against libertarian nightmarish visions of George Orwell's *Nineteen Eighty-Four* and dystopian Big Brother society. In a controversial decision released on Oct. 4, federal privacy commissioner George Radwanski found that a single video surveillance camera in Kelowna, B.C., has met "the letter" of the Privacy Act since Aug. 28, when police stopped routinely taping what went on under its gaze. "Nonetheless," Radwanski wrote, "I am not satisfied that a continuation of the video camera surveillance without continuous recording is sufficiently respectful of the privacy rights of Canadians. In my view, only outright removal of the camera would meet that standard."



Alleged Sept. 11 hijackers caught on videotape at the Portland, Me., airport

The federal ruling does not apply to municipal police forces. And one frustrating measure of the shifting mood on the subject can be found by logging on to any Internet web-watch site. Call up prior charts for shares in any company involved in travel—say, Air Canada, Four Seasons Hotels or P&O Princess Cruises Plc. They all drop off a cliff after Sept. 11. Companies

close with their mirror images on the charts of these little-known companies: Nexus Group International Inc. of Burlington, Ont.; Vancouver's Imago Technologies Inc.; or U.S. firms Visiopia Corp. and Viisage Technology Inc. What the four have in common is software that promises to identify people from pictures—and stock prices that went through the roof on news of the attack, in some cases tripling in value. Politicians in Canada and the United States have since reinforced perceptions that attitudes have changed, authorizing sweeping reviews of national-security policy in both countries.

In September, Keflavik airport at Reykjavik, Iceland, became the world's first to run every visitor's face through a database in search of suspected terrorists or other criminals. Other airports are sure to follow. Nexus chairman Jerry Jenik began his company's face-recognition software via the only one demonstrated between Sept. 25 and Oct. 5 to members of the Montreal-based International Civil Aviation Organization, which sets international air-travel standards. "They all want to implement as fast as possible," says Jenik. "They're just waiting for funding to let the plane." Jenik's technology remains unproven in situ, however. By contrast, Vancouver-based Imago—whose divisions include the no-second-in-command of the FBI—has put its face-recognition software into operation in police departments throughout North America, as well as in prisons, to help catch cheaters. "We use it all the time to identify people who come in lying about who they are," says Const. James Armstrong at Canada's largest RCMP detachment, in Surrey, B.C.

The other two companies in the race to arm public facilities with video-identification software are American. From its base in Lexington, Mass., Viisage made the face-recognition software that sparked wide controversy last winter when it was used to scan crowds attending football's Super Bowl in Tampa, Fla. (It identified a dozen or so small-time crooks.) After the attack, New Jersey-based Visiopia released a paper titled "Preventing distraction from the facts of terror." It identified five ways video-identification software could make air travel safer, from general surveillance of airport crowds to "immediatous terrorist

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Surveillance-video stills of suspected terrorists help shift the public's view on privacy

background check(s) on each passenger."

Vancouver, meanwhile, is the biggest Canadian community so far to consider large-scale video surveillance of its own citizens. In a proposal given online approval on Sept. 20, the police department plans to erect 25 colour closed-circuit television (CCTV) cameras to monitor activity on nearly 70 blocks of the drug- and crime-infested Downtown Eastside. To protect privacy, the proposal suggests instead cameras, not police, monitor the cameras, under the oversight of a civilian watchdog body, including civil liberties groups. But the cameras under the citizens' multiple eyes would be recorded, and tapes saved for at least a month.

The author of the elaborate proposal is Grant Fredericks, a former Vancouver police officer turned U.S.-based consultant. Spot use of surveillance cameras, he says, has proven their worth. Tapes of looting during the 1994 Seattle Cup series led to charges against 106 people. On Aug. 8, a single camera installed temporarily to monitor street congestion during a fireworks show caught on tape a fraudster who left several cars with sub wheels. Police used the tape to identify and charge two youths with auto theft. Angus Fredericks "A properly designed CCTV system could become our most powerful tool to reduce victimization."

Officials in other cities hold similar views. Sherbrooke, Que., has had cameras on downtown streets in its bad district since 1991. In 1999, Statistics Canada ranked it the country's safest city. Montreal, Sudbury, Ont., and Winnipeg each have a few cameras in trouble spots. Kelowna pulled in cameras in July, says Mayor Walter Gray, and found overwhelming support for what the city calls

"community safety cameras." Since surveillance-video stills of suspected terrorists began showing up on newscasts, adds Gray, "I think citizens would give over more support." He adds that Kelowna will go ahead with additional cameras, but for now will stick by Radwan's directive not to record what they observe unless a crime or emergency is in progress.

To their dismay, even civil liberties groups concede that views on privacy may be shifting. "In the wake of Sept. 11, there is probably some considerable public opinion that a proliferation of video surveillance cameras in our streets and parks would somehow make us safer from terrorist attacks," Radwan's said in his ruling. "But even if New York City had been endowed with so many cameras as to turn the whole city into a giant TV studio, this would have done nothing to prevent the terrorists from crashing aircraft into the World Trade Center."

Surveillance critics contend that cameras do little against more ordinary crime, either, at best moving it out of sight of the lenses. In Kelowna, says Dale Beyens, spokesman on privacy for the B.C. Civil Liberties Association, "there's more about four blocks up the street to be in front of a Christian bookstore." Far from improving safety, police surveillance is "in some ways worse than nothing," Beyens claims. "They can see you. You can't see them."

But for many North Americans the fear of more substantive threats outweighs such objections. In violence-riddled Downtown Eastside Vancouver, says community worker Frank Gilbert, losing some privacy "is not one of the biggest issues. The big issue is how will I get to the grocery in the near black and back

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ually. Anything that provides a solution to the street scene is fairly attractive."

Another microcosm of the issue can be found in San Toronto's 1,600-student Cadabre Collegiate Institute. After a shooting (not involving students) on school grounds two years ago, Cadabre installed 32 cameras at known trouble spots, monitored in the principal's office. In early October, more cameras were installed to eliminate blind spots. Duffin Layal, 18, has attended Cadabre since 1996. Then, he says, "a lot of crimes were happening—stealing, people fighting." Since cameras entered the school, Layal says, "There's a mind set. There's a camera there, why even do this anyway, because I'm going to get caught." Personally, I feel safer.

Nowhere is video surveillance more popular than in Great Britain, where public cameras were first installed to battle Northern Ireland-sponsored terrorist attacks. "The motivation was to get evidence on anyone who might leave a car bomb," says Fredericks, who visited



Bulger's 1993 kidnapping caught on tape

Boston to research Vancouver's proposal. But after video-surveillance tape helped solve the brutal 1993 slaying of two-year-old Jamie Bulger by two older boys, spending soared. In Andrie, Scotland, user crime fell 21 per cent in the two years after cameras appeared. In the Midlands town of Doocaster, troublemakers accused of 3,800 crimes pleaded guilty, once confronted with evidence of their crimes caught on tape. In August, London announced \$180 million, on top of \$480 million already spent, to expand surveillance by almost a third.

For now, the sinister Orwellian scenario of surveillance cameras identifying individuals on the street and monitoring their every move remains a fiction. As a practical matter, most public surveillance cam-

eras are mounted well above street level to prevent vandalism. Much of the crime they spot occurs at night in comparative darkness. As a result, the images they display, while sufficient to detect a crime in progress, are often too partial, dark or blurred for use with identification software. Street crime, moreover, is a different adversary from international terror. To Fredericks, linking the two is "indiscernible." His enthusiasm for surveillance rests on its usefulness for deterring—and prosecuting—muggers, not suicide bombers.

Still, from the nearest street to the highest reaches of government, the search for technologies that promise greater security has moved into high gear. Already, says Neely Junk, "We are capable of doing that face-in-the-crowd thing" in real time. How soon does he expect to see it done for real, using public video surveillance? "I'd say, in three to five years." Big brother-like power to identify anyone, anytime remains elusive. But not, perhaps, for very much longer.

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KIDS WILL BE KIDS

Grown-ups still treat youth as mini-adults. Why not encourage them to create a different world?

BY KEN DRYDEN

I was born in 1947. When I look at these photos of myself from elementary school, I am in a plaid flannel shirt and cotton pants. In family photos, I am wearing a navy-blue blazer with gray pants and a tie. I am wearing the kind of clothes that men in those days wore at home or in the office. I look 50 years old, only 40 years younger.

In the 1940s, being a kid was just beginning to be different from being an adult. Before the Depression, most kids lived on farms and spent their days doing what their parents did. Even as families moved into cities, old understandings endured. The family came first. There were chores, responsibilities. School was fixed in until kids were old enough to take on a full-time load, and the family needed them. For most, that time came only in high school. Kids were called as mini-adults, one day to step into their parents' shoes. Youth was an age in one's life, not an identity.

Then things began to change. The post-war boom meant families had more money to spend. They could afford objects that made their day-to-day tasks easier. With fewer hands needed to make light work, kids could do other things. They went to school longer. They joined sports leagues and community clubs organized just for them. Affluence was creating the unprecedented luxury of a special time and a special space in life for kids. Yet it was a kid's life with adult values and understandings.

James Dean and Elvis Presley challenged that model. They offered a look, sound and attitude that were exciting, like those of their parents. They would never have had the chance in an earlier era, but this was a time of money.

Teenagers who weren't interested in sports or clubs could use their extra time to work. Not to do family chores out of obligation, but to do jobs for money. Thursday and Friday nights and Saturday working at the supermarket or gas station, earning money in amounts far greater than their pocket-and-dime allowance—and it was all theirs. They were also something to buy now.

Postwar prosperity had put more cash on the road and eventually offered families affordable, secondhand, second cars. Teenagers could now borrow a car and (theoretically) put gas in the tank, robbing parents of their only asset to stand on in refusing them the keys to the car. (The old excuse—"because your homework isn't done!" never got the car when I was just age 17 and no longer seemed to work.) And now, there was also the possibility of a third car in the family: the jalopy. The jalopy was something for a teenager to work towards. Being third-hand (or fourth- or fifth-hand), it didn't cost much (20 bucks), and keeping it on the road was a lot to be worried about later, and then passed on to parents. Not that parents liked those hoppers; they were too loud, uncomfortable, unreliable, unsafe. Parents didn't want to be in them. Which was, for a teenager, all the better.

Rock 'n' roll also widened the generational divide. If, for kids, money is natural, now they had the money to support a natural kid's attitude. If, for adults, louder is to be avoided, for kids that was having their cake and eating it too. Now kids could create the space and the time to be kids, to begin discovering what this advertising-developing time of life might make of them.

With blue jeans, they also had the uniform. Family pressure had been joined by peer pressure as a control shaper of youth. With kids having their own money, a welcome instinct to be different could be played out. Youth was becoming an identity. In every one, youth is (or should be) a time of taking in the world, discovering what feels good and what doesn't, where you fit in and don't. Youth is doing what you don't know how to do, going where you've never been. It is getting things wrong, and doing them again. It is seeing yourself and everything around you: it is feeling pain, and finding ways to avoid it. It is feeling pleasure, and finding ways to repeat it. Youth is, to an adult, a time of exuberance. Louder, wilder, crazier, all-out, all the time. No fudging, no fencing, no control.

Youth is also a time of finding balance. When kids learn to share, they go faster than they can manage, and fall. Or, if they don't fall, they go until something stops



Dryden (right) at age 9 enjoying Father Knows Best with sister Judy and brother Dave: I look 50 years old, only 40 years younger

them—the beach at the end of the roller—and they discover they had better learn how to stop. Once they learn how to stop, they are willing to skate more often and longer. They discover they can go faster and faster without hurting themselves. They learn that by controlling themselves they can have even greater freedom.

Youth is a time of learning. Am we using that time well?

Today, youth identity has never been stronger. There is little new, popular music that isn't youth music. Youth movies and TV shows offer a vision of youth that is very different from what today's adult experienced as a child. Television even has special youth networks conceived of by adults, and some—BlackMusic and others—with a spirit that's unambiguously of and by youth.

Today, it takes an extraordinary effort for adults to share the youth experience

with their kids. And, today, even an ordinary effort is harder to make. More often than in the past, both parents work, and they work longer hours. More often, parents are not together. They have less time and energy. The fight is exhausting. Disconnected from their children's reality, adults come to feel disconnected emotionally from their children as well. Instead of even sharing the same space, kids and parents watch their own TVs in separate rooms, or they all escape to their own computers. The peer pressure of friends, and indirectly of youth in television shows and movies, are ever-stronger forces shaping a child's life.

Yet youth are not as independent as they seem, especially financially. They take longer to graduate from college or university (and even from high school) as they work more hours at part-time jobs, take fewer credits at a time, go on year-long

breaks from school, and maybe do multiple degrees. When they're finally finished with school, they come back home again (if they ever left) so they can afford to pay off student loans and save money to support the lifestyle they want. Living in different worlds, kids and adults often still live under the same roof.

Youth feel ready for lives of their own. They don't believe in the old hierarchies of power that run the world before their time. Because someone is older, richer, male, white or better educated doesn't mean they should have special privileges. To today's youth, kids are human beings just as adults are, and that's all that matters. If youth can do the job better, they should get the chance. But, as in the family business, the younger generation may be ready long before adults are willing to give up control. One thing has changed, however. New technologies are allowing everybody

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Essay

companies to start up, and since youth offers undimmed new technologies better than adults, they don't necessarily have to wait their turn climbing the corporate ladder. They can start their own business or be hired at a senior level straight from school.

What might youth identity be in the future? We understand better today the immense capacities of youth, which until now have mostly been untapped. We also know that many of the great breakthrough discoveries and creations through history were made by those under 30. Galileo, Mozart, Einstein, Einstein and Picasso all did much of their most important work while still young. We know, too, that in crossing the luxury of a special stage in life for youth, we have confined youth to development rather than action. From a desire to be enlightened and grown-up, it seems we have extended that incubation period into adulthood, and will use the years of greatest human capacity.

Now, as always, the most rewarded youth—rewarded, that is, by adults—are the prodigies, the kids who can do adult things at a frustratingly youthful age. Not as well as adults, not to the point of crossing the boundaries of human capacity, but as the 18th-century writer Samuel Johnson said, "like a dog walking on his hind legs. It is not done well, but you are surprised to find it done at all." But this is a noteworthy achievement.

Naturally do we adults confine youth to development rather than action, but we also try to limit their development to a certain son. Little heads may have long done the devil's work, but now the devil is seen everywhere. Drugs, alcohol, physical and emotional abuse are taking root to creep through the cracks of free time. So our adult instinct is to fill time for our kids. To organize it, maximize it, *Mind of Youthful Wanderings*—whether physical, emotional or psychological—afraid of chance, afraid of accident, afraid of time, we focus, we dance. We disrupt the instinct and the informal. We disrupt play. No play, doing things without fear or the consequences, is the essence of learning. In the instant of youth. We as adults have created an extended time for youth, but to safeguard youth from youth's uncertainty, we have made that time very unyouthful.

Today the greatest youth achievements



Dryden today: 'We live in a world where the big problems have needed adult solutions'

come from the marvels who, impatient with the pace of youth development, jump off the train to create their own time and follow their own passions and obsessions. Bill Gates may be the most obvious example, but there are many others in music, dance, art, sports, new technologies—whatever age cannot act as guardian. As a society, so we become more comfortable with formal learning over our entire lives, perhaps it will become more acceptable for youth to interrupt their education for years at a time so that they can work and take action in the world. Perhaps new technology and the instant for money and independence, will drive that to happen.

We live in a world where adults still want to enter youth as mini-adults, reward them for adult-like achievement, and censure them for non-adult-like behaviour. We live in a world where the big problems—poverty, racism, violence, inequality—have needed adult solutions. How can we do better? Do we need other approaches, other sensibilities? As Albert Einstein once wrote: "You cannot solve the problems of the present with the solutions that produced them." Don't today's adults represent the ultimate stage of human development, human achievement, human possibility? If not, why do we want to raise our kids as mini-adults? Why act on them at the time of youth differently? Why not encourage youth to be youth? To learn and grow in different ways to become different adults. To redefine youth. To redefine adulthood. To create a different world. To create youth identity that emerges out of true youth possibility.

Hecley Hall of Fame Ken Dryden is president of the Toronto Maple Leafs. The seven Stanley Cup champion goalie holds a history degree from Concordia University and a law degree from McGill. He is the author of four best-selling books, including The Game (1983) and In School (1995).



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Wealth 101

Our finance columnist, who normally deals in millions, offers advice to those starting out



BY DONALD COXE

You've bought your books, you've paid your tuition, you've budgeted for your other costs for the university year, and you have \$500 left over. An advertising uncle says he'll match whatever you put into long-term investments during your years in college. That makes you in a good deal, so you start thinking about what to do with that \$1,000.

The most significant investments you will make in your lifetime—dollar for dollar—are the ones you make when you are young. Although the pro-rich-quick mantra of the 1990s responsibly observed that reality, wealth accumulation comes from long-term compounding of investment returns. The \$1,000 saved at age 20 at five per cent in real (inflation-adjusted) terms in an RRSP is \$8,000 at age 62. (A five-per-cent real return may sound easily achievable, but that is roughly what leading

stock market indices deliver over the long term, so don't over)

You've heard the slogans—"stocks for the long run," "buy and hold," "invest for the long term"—and their ilk—but you have a natural skepticism about them. Good. There is more to investing than tucking money into an asset and leaving it there. "Good takes from little assets grow" is an example of misleading "wisdom." Which assets? Few assets survive to become little assets, and few of those achieve greatness. Nature assumes high mortality rates, offset by high birth rates. So do capital markets.

Even buying a young oak and planting it into your backyard is no guarantee of shade in old age. You would need to plant several trees, of differing species, as a hedge (no pun intended) against diseases and pests to feel confident about hereditary stability in your retiring years. Diversification is wisdom in trees and in wealth.

Here are eight useful principles

1. Stocks outperform bonds over the long term, but bonds have their years in the sun.

Example: stocks became an shovels in the late 1990s, as TV, books and soon even patented equities were made magnification. After spending one of these contraptions in 1999, with glossy slide shows and simplistic representations of long-term results, I began warning people that the rules in equities were being a demand. This came as price-earnings ratios were at unsustainably high levels and future earnings forecasts assumed never-ending economic prosperity and never-ending earnings gains from a never-ending productivity gains from a never-ending contraption of technology breakthroughs. Result: I recommended that investors scale out of stocks—particularly technology stocks—and buy long-term bonds. The recommendation made me unpopular in fashionable quarters. As the first step in building your own wealth, check out what happened to (a) investors who assumed my advice, and (b) those who followed it.

2. Never ignore the mathematics of compounding.

Example: when Nurdag fell 70 per cent from its high, and Wall Street sophisticated people in hanging on for the inevitable recovery, how big a rally was needed for the portfolio to break even—70 per cent, 100 per cent or 150 per cent?

Answer: none of the above—238 per cent was needed to break even, which would mean the rate of return for the previously patient was zero per cent for however many years—or decades—it took to recoup. If you lose big, plan on working very long and saving even more.

3. There is a world of opportunity: take it.

No country's stock market outperforms the rest of the world for long. From 1960 to 1965, it was the U.S. Then the leadership shifted to Europe, then, in the oil and gold years, to Canada, then Japan, then Hong Kong. The U.S. regained its lead in the early 1990s, and may be entering a prolonged period of underperformance. If you had bought the U.S. stock market at its 1965 peak, you'd have had to wait until 1985 to break even in nominal terms, and until the early 1990s to break even in real terms.



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4. Use cash to work:

"Cash is trash." Diversify among long-term asset classes, not among time horizons. Restrict your savings to stocks and bonds. Cash is for spending and for emergencies, not for saving or investing. Bonds reduce portfolio volatility and give you gains and income when stocks become too popular and too expensive. Over the long term, a good rule of thumb is 80/20 stocks versus bonds, but during periods of extreme bullishes, 50 per cent or 40 per cent stock exposure will protect your wealth and give you firepower for the next bull market.

5. Dollar averaging works.

If you have the discipline to put money into the market every month, on every quarter, then you can consider putting all your savings into stocks, because the available bear markets will give you great buying opportunities. Two problems you could be out of work during a long bear market, so you might have to cash in some of your savings, or add to shares, around extended periods of bad politics can make equity investing a losing game for decades. Example: long-term government of Canada bonds hurt, on a cumulative basis, outperformed the TSE 300 composite index since 1981. Why? Because the reason was rated first so long in big-government tax-and-spend liberalism that the damage inflicted on the composite sector was too grievous to heal for many years. Had Ronald Reagan not won in 1980, U.S. equities, which had been heavy investments since Lyndon Johnson's era, would not have returned to capital-market greatness.

6. Need demographics.

For your investment lifetime, demographics will be, not only politics, the most important determinant of comparative equity investment results. By the time you have finished high school and are entering the workforce, nearly all the advanced industrial nations will contain populations that are aging and shrinking (Italy's fertility rate, to choose a scary example, is 1.2 babies per female, nearly to maintain the current population, the rate must be 2.1.) Mismatched, trained people

of workforce age create wealth, people of other ages consume it. Today's interesting market nations will be decrease for global equity returns long before you are ready for the retirement you planned for so prudently.

7. "Where thy treasure is, the heart shall be also."

Wise investing should give you more than just good long-term returns; it should stimulate you to keep educating yourself for life. Read, study and reflect. Your portfolio should raise business questions in your mind about how the world works—and how to make it work for you.

8. Mutual funds or individually managed portfolios?

See with a group of mutual funds but plan on giving personally involved what you have the experience, the knowledge and the time to do it right. You may be able to outperform your car, fix your roof or heal your ailments without paying for professionals. But you'll usually be better off devoting your study and time to becoming expert in your career and paying the other professionals to do what they should be able to do better. Read their reports, watch their performance and learn to second-guess intelligently before you risk serious money competing with them. Never let your ego or your delight in puzzling get in the way of patient wealth building based on expertise and professionalism. Choose a financial adviser who recommends mutual funds as the basis of your program.

When is a good time to start? Right now. We are in a low-inflation, low-interest-rate recession, so buy equities for your initial stake, with an emphasis on resource companies. The safest time to buy stocks is when a recession has begun and the bond market has stayed a huge rally because investors seek safety (for those who already have substantial wealth to protect, diversification remains necessary. Stocks are pretty expensive, and sometimes trigger short-term market action problems). So give your uncle a call—and get going. □

Donald Case is chairman of Florida Business Management in Chicago and Toronto-based Jones Heron Investments.



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- LM Montgomery Institute at UPEI was first international award and two national awards for *The Best in the Road* interactive CD-ROM on the life, work and influence of LM Montgomery. Available at www.upi.ca/lm
- UPEI wins German award for recruitment and www.upi.ca/gapb/commrec
- New student centre campaign publicized via CPRL (NSI award) www.upi.ca/cpirl
- UPEI's on-line registration system wins CAUBO's regional Quality and Productivity Award. *Site of a not done at www.upi.ca*
- LM Montgomery Institute Web site garners EDUNET Choice award. www.upi.ca/choice
- UPEI's human resources department receives a Conference Board of Canada's Business and Education Award for being a top employer of youth.
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Tech Explorer



Baby bikes

Clearly, it's not about practical transportation if you're travelling long distances, you might be better off carrying it than riding it. Comfort? Certainly not. But it's undeniable: the minibike has a kind of goofy charm, and has begun to make inroads on California's scooter-ski-board-stunt bike culture.

Rams (as they're also known) look like nothing so much as the kind of bike a monkey would ride in a circus act. Deluxe models come with adjustable seats and handlebars, and even—for the rider of bottom—springs and shock absorbers. All can carry the weight of a large adult. Not that adults are the target market. Like the scooter and skateboard before it, the mini bike is really meant for teens. Twelve-year-old William Gervais has one, for instance. His father, Louis, the Quebec sporting-goods manufacturer, first saw minibikes on a Taiwanese buying trip last year. Now, Louis Gervais Sports Inc. is offering them in bike shops across Canada, where they retail for \$150 each. At the moment, William says, only about 10 of his friends have minibikes, he expects that to change come Christmas.

showed of a lifetime—maybe. Researchers are predicting 2001 may finally be the year when the annual Leonard mountain shower across Canada becomes so intense it's called a storm. That could mean up to 3,700 shooting stars per hour—more than one per second—in such black rural Ontario and Quebec, or 650 an hour in brighter city areas (the peak is expected at 5 a.m. EST). Leonards are interstellar debris, some as small as a grain of sand, from the Tropic-Torrid comes, that burns up in Earth's atmosphere. This year's favourable viewing conditions—including a moonless night—won't come around again until 2009.

Michael MacLean and
Douglas MacLennan

COOL SITE

Free beer?

The name may be misleading, but www.livestrong.com has nothing to do with hops or hazy beers. It's a British-based Web site offering a wide variety of international business news, as well as tips on searching the Internet. It comes up Web site reviews at the Free Flat Bar, under Today's Tickle. Bar patrons can post questions on just about anything, including business practices, requests for help with searches and tech tips. The Student Bar offers help with class work and meeting advice. Sobering, but useful.

Starstruck

Early birds, party animals and students pulling all-nighters: cast your eyes sleepless on Sunday, Nov. 18, and see the meteor

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Gowdy in the wild

In her acclaimed 1998 novel, *The White River*, **Barbara Gowdy** cooks a delicious pot of the imagination by telling her entire story from the viewpoint of African elephants. But last spring, she took a more physical risk with her subject. As host of *Elephant Drama*, a documentary airing on the Discovery Channel (Nov. 18, 8 p.m.), Gowdy spent three weeks in Kenya communing with elephants in the wild. "While director **Jim Offman** and the crew filmed her from the safety of a truck, the 51-year-old Toronto author ventured dangerously close to the animals. "I got the access you don't get as a tourist," says Gowdy. "Sometimes their trunks were touching me."

Although she is a compassionate ally of elephants, which are endangered by poachers and shrinking habitats, to the animals she was just a stranger from a mainland species. "I tried to communicate telepathically, which sometimes any they do all the time," she explains. "But I was frightened almost every day I was there. Still, I thought I'd rather be killed here, in this beautiful place—by an animal who has every reason to feel great rage towards humans—than in Toronto, by a mugger or in a car accident."

So good to be Sloan

Some consider *Sloan's* a true haunted wonder. But, says guitarist **Ian Ferguson**, the band is "not any better than we ever were." Sloan is a band without a front man or dominant singer; instead, it's composed of four distinct personalities—**Patrick Pentland**, **Andrew Scott**, **Chris Murphy** and **Ferguson**—with their divergent songwriting styles. And the group's chemistry appears to be making records less stressful in the rock-happy South—literally. A newly published account of the Canadian music scene over the past 15 years, *New Hat Over the Snow: The Toronto Renaissance*, features "The Importance of



Breaking hearts, but not the bank

Over the course of four films, **Ed Burns** has stuck with the subjects he knows best: Irish-Catholic families, police officers, relationships and New York City. Burns, the son of a NYC policeman, wrote, directed and starred in the 1995 Sundance Film Festival hit *The Broken Middle*, then *She's the One*, *No Looking Back* and his latest, *Sideways of New York*. Now the 33-year-old says he is ready to move away from the relationship genre, but not away from home. "I am a New York filmmaker because from a big union family, my friends are my crew." So Burns won't be taking advantage of the tax breaks up here in Hollywood, Norb? "When people shoot in Canada, the ones hating are the American working guys," he says. "The studio executives, directors, actors don't take a pay cut. If they took \$10 million instead of \$20 million, the films that are set in New York could be shot in New York."

Burns, who is engaged to supermodel **Christy Turlington**, has taken his share of gay cuts. Even though he commands Hollywood-style salaries acting in movies like *Saving Private Ryan* and *25 Minutes*, Burns prefers not to collaborate with studios, and makes his own films with very little money. "I have one movie that in five films I have directed and I have only 20 feet of dolly track," he says. "I have now made five films for a combined budget of \$12 million." For *Sideways*, Burns attracted big-name starlets **Stanley Tucci**, **Heather Graham** and **Dennis Farina** by promising a short 17-day shoot. But they had to go without luxuries. "The actors were to get their own clothes," explains Burns. "Stanley Tucci's car is my car. We used my office, we were shooting in a bookstore that was open for business." And that is how Burns was able to shoot *Sideways of New York* in New York—not Toronto.

Sing Sloan?—one of the few chapters devoted to a single band. "I appreciate," says Ferguson, "that the authors think we are important—well, that sounds obvious—that they exist there is a lot of history behind us, that we made good music."

After 10 years, one breakup and a relocation from Halifax to Toronto, Sloan is still vital within the Toronto scene. Considering that emboldened band members

Clockwise from top, Scott, Pentland, Ferguson, Murphy



are influences ranging from *Kiss* and *AC/DC* to *George Harrison* and *Slime* and *Godfather*, their latest CD, *Proletariat*, is remarkably self-aware—a product of spending more time collaborating.

10 years from now, Ferguson hopes Sloan will still be pretty together, shagging off the radio that aging rockers—by then they will all be in their 40s—are embracing. "We'll see with the *Dark Ocean* record that next year," predicts Ferguson. "That is going to be exciting, not a disappointment."

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MAD FOR MOUNTAINS

Those who love getting high flock to Banff's celebration of all things alpine

BY BRIAN BERGMAN

In every mountain climber's nightmare, and one that has haunted Rick Ridgeway for more than two decades. On Oct. 13, 1980, Ridgeway and his climbing companions were caught in a massive avalanche that buried them more than 450 ft down a remote mountain in the Tibetan Himalayas. Trapped under the snow, Ridgeway was initially convinced he would perish. Misadventures, he struggled free and crawled sideways to a rock face. There, he thought to himself, I made it. I'm safe. OK, breathe, breathe again, again. After God, I'm alive... alive... alive.

Sadly, Ridgeway's close friend and climbing partner Jonathan Wright was not so lucky. Only a few feet away, at the edge of the ice, Jonathan gasped for breath. Despite several attempts at rescue—on-mountain rescuers, Ridgeway could not save him. He seized his buddy's head on his knee, ran his fingers through Jonathan's hair. In an instant, Jonathan's face turned pale. Ridgeway continued to stroke Jonathan's hair, then bent down and greedily kissed his forehead. At age 28, Jonathan Wright was dead.

As Ridgeway recounted this tragic episode in a lecture he reading during the recently concluded Banff Mountain Book Festival—part of an annual week-long celebration of all things alpine staged by Mountain Culture at the Banff Centre—audience members were spellbound. But there was more to come. Ridgeway, 51, a world-renowned mountaineer based in California, read from his new book, *Below Another Sky: A Mountain Adventure in Search of a Lost Father*. It tells of how, two years ago, Ridgeway opened up inside Wright's daughter, Ann, then 19, to Jonathan's frozen grave on a lonely promontory at 4,500 ft, overlooking the plains of Tibet. When they got there, they found the grave had been disturbed and the body missing, probably by wild animals. All that remained were Jonathan's backbone, ribs,

collarbone—and strands of his hair, still in good condition.

Ridgeway once again held Jonathan's hair, rubbing it slowly between his fingers. Ann, who was only one year old when her father died, approached the grave site. "He was so young," she said, crying deeply and leaning hard against Ridgeway. "He was my father."

By the point of the story, many audience members were also fighting back tears. "Wasn't that something?" said Nancy Hayes, a retired Calgary nurse who has attended the mountain festival almost since their inception in 1976. "Wasn't that a moment? That's the sort of thing that keeps me coming back, year after year."

November is a slow season in the mountains. Too cold for rock climbing. Not cold enough for ice climbing. So season is still a few good snowfalls away. In 1976, the first Banff Mountain Film Festival was staged during this period to entertain mountaineers for local residents. Even then it proved surprisingly popular, forcing organizers to rent a larger theatre when 500 people showed up, more than twice the expected number. The event has since spawned a concurrent book festival and trade fair as well as related exhibitions, all of it overseen by Bernadette McDonald, vice-president of Mountain Culture at the Banff Centre. A musician, rock climber and all-around mountain buff, McDonald says the common thread among those who attend is "an abiding fascination with this grand landscape and the mounties it inspires."

This year's book festival, held from Oct. 31 to Nov. 2, featured 34 finalists selected from 122 entries representing 10 nations. These included adventure-travel books, climbers' memoirs and novels set in the mountains—like the festival grand prize

winner, *Heaven's Way*, by British writer Roger Hobbins. The film festival featured a competition involving 250 films from 27 countries, 39 finalists were selected for public screening over the weekend of Nov. 2 to 4. The films ranged from *Intelligence—America's Secret Warriors*, a beautifully shot, if rather sedate, American documentary, which won the festival jury's grand prize, to *Survival in the Arctic*, an edgy, humorous Danish production about three young stolen hillbills for Antarctica, which won the People's Choice award.

Together, organizers sell about 10,000 tickets a year to the two festivals. But Mountain Culture at the Banff Centre is much more than a one-week operation. In addition to staging year-round seminars and exhibitions in the Banff area, the centre runs a year-round, 11-month world tour of mountain films. This year's tour, which began last week in Minneapolis, includes 250 screenings in 170 North American communities, ranging in size from the village of Mount on the Queen Charlotte Islands to New York City. There will be showings in another 30 European cities and in far afield as Australia, Africa and the South Pole. In all, the films will be seen by more than 100,000 people.

Indicative of their success, the Banff festivals and the world tour are almost entirely financed through ticket sales and corporate sponsors. They have tapped into a passion for mountaineering that appears to transcend all borders. McDonald says surveys of audience members both here and abroad show many are enthusiastic hikers, skiers and climbers. Others have never been to a mountain range in their

Like most of the people who attend her festivals, McDonald is an avid climber



Ridgeway took Ann to the Tibetan peak where her father perished



The Arts

lives, yet are avid consumers of mountain culture, including books, periodicals and television documentaries.

The Baffin festivals, in particular, often have the flavor of a tribal reunion. This year, Scott Larront, 36, was among those who could be seen grinning and hugging old acquaintances as he made his way between venues on the compact campus of the Baffin Centre for Continuing Education, overlooking the town of Baffin. A pediatric nurse and Calgary native who has lived in New Mexico for the past five years, Larront has attended every Inuit festival but one since 1988. "This is my chance to see my friends, my family, my acquaintances," enthuses Larront. "It's my way to stay connected to home."

Perhaps the most popular feature of the Benetton formula are the beguiling addresses by world-class musicians and subversives. It's no surprise that these often turn into meditations on morality as thieves recall their own brushes with death and farmers the loss of fallen friends. During one past presentation this year, Mexican alpinist Carlos Castaneda showed dozens of slides of his many conquests, which include reaching the summit of all 14 of the world's 8,000-m peaks—without the aid



...brought to the
the Afghan people
and their bloodied,
strangled bodies
stretched together

of supplemental oxygen. Charming and inquisitively hilarious, the hard-drinking Canale, 38, obviously likes to party as much as he loves to climb. But he grew rebellious, even sullen, as he told of the time he failed to convince a female climbing partner, Wanda Rutkiewicz, to abandon a particularly dangerous Himalayan summit attempt. He waited for three days further down the mountain, but knew from the outset she had peaked. "It was so hard," he said of his subsequent descent of the mountain, "because I felt I did not help her up there. It was such a mess. It was sad, sad."

Carvalho returned to Mexico and fell into a depression. He vowed to stop drinking. But his resolve didn't last: the lure of meager pay was simply too strong. "How to explain our great love of the meager?"

he said at another point, his voice choking with emotion. "It is our life."

That all of a familiar ring to *Redwings*, an Emmy Award-winning documentary filmmaker who abandoned climbing for three years after Wright's death. *Redwings* told *Midwest* that "like by like, I came to realize that if your passion is in the mountains and the wild corners of the earth, then life is a hard lived endeavor that passes, even with all the risk." In fact, the fish of these days the tragedy helped him realize the importance of living every moment to the fullest. "There's scarcely a day passes that I don't see in my mind's eye the scene of that avalanche," says *Redwings*. "It reminds me that I am living on probabilities—as we all are, but as so few of us ever consider or acknowledge."

Not all of the visiting laboratories were

MAGNIFICENT OBSESSION

Consider the first lady of the mountains: she was born and raised on the slopes of the Rockies of Idaho near Bligot, Idaho. Renowned wildlife biologist and former president of Wildlife Action in the West Center, she is former horn glider who studies mountain birds but looks at the Rockies at age 11. McDonald spent a single winter night in Blight during a family road trip to British Columbia. "It was just one of those magical nights when I was crawling like a magpie and the mountains were covered in white," she recalls. "There was just something about the mountains that absolutely spoke to me. I still have connections to that landscape that I never had to the Coast."

McDonnell's next experience of the mountain came when she attended university in Tacoma, Wash., on the edge of the Cascade range. While pursuing an undergraduate degree in her first love, music, she acquired a new obsession: the legend to tell and take long backcountry hikes, and got a summer job at Yoho National Park, training itself "I remember thinking that I had finally found something I could feel so passionate about as music," she says.

DeWolfe and the grunts studied in music theory at the University of Wisconsin and the University of Western Ontario, and later performed as a quartet with a contemporary music group, Ruckus E. In 1976, she married Kim McDowell, a national park ranger. The couple lived for six years in a small house on a remote wooded hillside, halfway between Alaska, Alaska, and the Canadian border. In winter, she taught music two days a week and asked the rest of the time in summer, she and Alan (they have six children) disappeared on honeymoon like the high country her friends on road. "It was a wonderful life," she says. *—Lisa Mitchell*



Thel's klyric existence ended in 1965 when she accepted the job of director of the East Mountain Music Festival, which had been launched by the Thel Center for Continuing Education 23 years earlier. Under her watch, the festival has evolved from a weekend of screenings into a week-long event, featuring a variety of folk festivals and music.

1998, McDonald's founded Mountain Culture of the South Centre, introducing four mobile exhibitions, lectures and symposiums on issues related to the mountains, such as sustainable development. The centres are an initiative 15-month world tour of mountain films that now travels to 27 countries. And in 2002, which has declared the International Year of Mountains, McDonald's will play host to a summit that will bring attention for three days of public affairs film and book festivals.

Given her myriad responsibilities, McDermott, who turns 50 this week, doesn't get to spend as much time climbing in the mountains as she used to. But she remembers an avid rock climber and skier, and she and Alan spend most of their vacations visiting remote spots around the world. For her she lost that young girl's sense of awe. "People go to the mountains to find their soul," she says. "You totally did."

Robin Escameno is a writer in Los Angeles.

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The Arts

mountainers Last December, American conservationist Mike Fay completed a 15-month, 1,300-km trek by foot through the uncharted forest of Central Africa. Fay wanted to document an area untouched by humans for more than 1,000 years, and to alert the world that industrial forces are about to destroy "the last fiddle gem in the African continent."

Fay turned up in Banff this year to give a slide show about the trek, which is the subject of a National Geographic documentary, *Africa Alive*. In the film, one of the finalists in the festival, Fay looks very much like the lead character played by Martin Sheen in *Apocalypse Now*, fogging ahead into his own personal heart of darkness. Devised only in shorts and snafus, he appears increasingly dour and wide-eyed as the months drag on. Near the end of the trek, Fay is seen bearing the African he has found, for \$19 a day, because disease and fatigue have made them want to give up. How, he asks, can they meet him this way?

Fay, 44, told the festival audience that he felt mainly reluctantly when he finally completed his journey. "You get used to living in the forest," he explained. "You've become a wild man."

Here in the tranquil Canadian Rockies, it's hard to imagine that on other mountain ranges, far away, bombs are dropping, blood is spilling. This year's Banff festival took account of that grim reality. One of the most gripping, and timely, films in competition was another National Geographic production, *Into the Forbidden Zone*. It tells how Sebastian Junger, author of the best-selling book *The Perfect Storm*, and Rex, a renowned Penn-based photographer, were smuggled into battle-ravaged Afghanistan last year. They were there to meet with Ahmad Shah Massoud, the legendary leader of the Northern Alliance. Massoud had helped mount the 10-year guerrilla campaign that finally drove the Soviets out of Afghanistan in 1989. He was then plunged into an armed struggle against the country's aggressive Taliban regime. Massoud was murdered by suicide bombers posing as journalists on Sept. 9.

Into the Forbidden Zone is chilling stuff, full of images of young rebel soldiers having their bloodied, mangled limbs stitched



Kapadia's son died in an India-Pakistan alpine conflict; Fay (top) was 'a wild man' at the end of his African adventure

together and squaled refugee camps where babies die of malnutrition. It is a searing reminder that the evil that struck North America on Sept. 11 had been festering in the mountains of Afghanistan for years, while the West turned a blind eye.

The Banff festival also featured a seminar on war and the mountains, one that had been in the works for months, but which took on new relevance after Sept. 11. Among the speakers was Harish Kapadia, India's best-known mountain climber. Kapadia briefed the audience on another remote mountain conflict that has gone largely unnoticed in the West. This contest on the Siachen Glacier, near the north-eastern border between India and Pakistan, part of a larger struggle over Kashmir. Thousands of soldiers have died in the Kashmiri conflict, including Kapadia's 24-year-old son, Nawang, who was shot last November as he tried to aid a fallen comrade. Kapadia is now lobbying for the creation of a trans-boundary "peace park" to try to defuse tensions. "I can only hope," he says, "that one day soldiers will be replaced by mountaineers."

Kapadia, on his first trip to North America, also served as a member of the festival's film jury. He told Maclean's he was impressed by the way organizers had brought together mountaineers from around the world, adding that linguistic differences at such events pose no barrier. "It's about mountains, we can chat for hours, even if it's just by sign language," he laughs. When it comes to their shared passion, mountain people speak in one

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Films **BRIAN D. JOHNSON**

Voyage of the damned

A Canadian documentary cracks the mystery of who sank the Struma

Now we call it collateral damage—a term that implies the slaughter of civilians is just an unfortunate side-effect in the necessary business of war. But killing innocent people is no more an accident of war than killing cattle is an accident of ranching. Who lives and who dies is often, cruelly arbitrary, a lesson borne out by the Sept. 11 attack, and by the U.S. bombing in Afghanistan. In remembrance, and retaliation, we try to dignify war with a sense of moral order. But through the long lens of history, a more barbaric picture emerges, one of civilians sacrificed on the altar of power politics. At least that's the legacy that comes to light in *The Struma*, a powerful new documentary from Canadian director Seneca Jacobson.

During the Second World War, nearly 800 Romanian Jews were packed onto a ship named the *Struma*. They thought they were the lucky ones. Fleeing the Holocaust, they had paid handsomely for the privilege of being refugees. Their decrepit, 46-ton boat was bound for Palestine, but its engines failed near Istanbul, Turkey, leaving it passenger from Britain, denied sanctuary. And after 71 days of stalemate, the *Struma* was towed to open water where it was left to drift. On Feb. 24, 1942, it was sunk by a single torpedo from a Soviet submarine. All but one of the 770 passengers and crew perished in the frigid waters of the Black Sea.

This week, the ship's sole survivor, David Scollar, is the guest of honour at a gala benefit screening of *The Struma* in Toronto (Other charity screenings will follow in Vancouver on Nov. 25 and in Montreal on April 18.) The film weaves the story of the tragedy with a groundbreaking investigation into the politics that sank the ship, and a contemporary tale of a British diver frustrating Quebec to find the wreck that marks his grandparents' grave. Scollar's vivid recollection of the sinking—he was 19 at the



Jacobson's father was among those who escaped Romania aboard a refugee ship.

time—play a starring part in the documentary. Now 79, he will see the film for the first time at Toronto's 2,000-seat Princess of Wales Theatre.

"It's miraculous that the screening is taking place," says Jacobson. "Usually, it's

hard to get 100 people into a room to watch a documentary. And by any normal accounting, David Scollar shouldn't be there. The torpedo should have killed him, or he should have drowned, or he should have died of hypothermia." But it was also

Films

thanks to a fluke of history that Jacobovici, the son of Holocaust survivors, was around to make the film. His father, Joseph Jacobovici, was among a group of Romanian Jews who were rounded up and shot by Nazis during the war. "He was left for dead in the police courtyard," explains Sirecha. "When the womenfolk came to bury their dead, some people wiggled around, and my father was one of them. He was seen up in a friend's kitchen. The bullet passed through his chest when his heart was in contraction. Had it been in expansion, I wouldn't be here to make this film."

Joseph, who died five years ago, survived the Nazis only to become a target of the Communists. He escaped Romania in 1947 in a boat called the *Pan Cserovici*, a refugee vessel much like the *Strauss*. Sailing for Palestine, he was diverted by the British navy to Cyprus, where his passengers were forced to join about 50,000 Holocaust survivors in squalid-war camps. The *Pan Cserovici*, in fact, helped inspire *Euzza*, the famous novel by Leon Uris.

Although his father's saga could warmer in his own film, Jacobovici makes it just a poignant piece more in *The Strauss*. The story focuses on Sotias and on a diving expedition led by Gage Watson, a British computer programmer whose grandparents were down with the vessel. Watson is determined to attach a memorial plaque to the wreck, and the director joins him in a suspenseful search hunt by a number of obstacles, including the Turkish coast guard. Jacobovici also uncovers conclusive evidence that solves the mystery of the sinking. Digging through Soviet records, he proves the torpedo came from a Soviet, not a German, submarine—he even finds archival footage of the sub operating in the Black Sea. To block the Turkish-German trade in cholesterol, the Soviet Union had a policy of sinking all neutral ships in the Bosphorus strait. Jacobovici also exploits the possibility that agents from Britain's MI-6 sabotaged the Strauss's engine to prevent it from reaching Palestine.

In the end, however, Sotias's story—the sole narrative clinging to a piece of wood in an icy sea—is the most compelling. "For 58 years, no one asked me about the Strauss," says Sotias, a retired oil-company executive now living in Oregon, "and I felt that no one cared. I carried the memories in my head as if it happened yesterday." Now, at last, he is not alone. ■

A fairy tale of gay Paree

An impish guardian angel patrols the City of Light



Amélie

Directed by Jean-Pierre Jeunet

European films that travel well to North America—from *Cinema Paradiso* to *Levi's Blue Jeans*—tend to be whimsical fables distributed by Miramax. And this year's designated Euro-hit is no exception. *Amélie*, a misanthropic comedy, is the kind of mille-feuille confusion that offers a taste of France for those afraid to fly. Directed with postmodern panache by Jean-Pierre Jeunet (*Déjà vu*), it unfolds as a kaleidoscopic portrait of contemporary Paris. But it feels like a nostalgic trip through a city that no longer exists, a baroque of garret painters and quaint canteens where romantic possibility swirls in every corner café. The camera glides down cobbled streets and Métro stairways with the same accordion rhythms that swoon through the sound track. This is a French movie that wishes life were a French movie.

The action follows the adventures of Amélie, a cartoon-cut heroine played with feline charm by Audrey Tautou. Like a mad pastry chef, Jeunet concocts Amélie's childhood as a white-burg mantrap—from her suicidal goldfish leaping out of its bowl to her most vision of vinyl LPs being manufactured like crêpes. Amélie grows up to be a waitress in Montmartre, but doesn't grow out of her imagination. Her story is set against the backdrop of the Prince of Wales's death. As the movie unfolds, O.K. Amélie becomes a self-sealed saint of a different order, unblended and anonymous. She discovers a 40-

year-old bottle tin of childhood treasures in her apartment, trades down its owner and covertly returns it. She plays matchmaker for two lonely hearts in the café where she works. And as a guardian angel with a sense of mischief, she also dispenses punkish justice, taking revenge on her unloving father by soaking his cherished garden gnome—then mailing his pictures off to prison beside foreign landmarks.

But Amélie's ultimate mission is to re-arrange her own romantic destiny. Before, she falls in love with a pragmatic young man named Nino (Mathieu Kassovitz) who collects torn and discarded troupes that he salvages from a photo machine at a train station. The movie is full of benign collectibles and foreshadowing: Amélie's own guardian angel is the Man of Glass, an elderly neighbour with brittle bones who points Renée's fingers and watches the world through binoculars.

Amélie is the kind of woman only a male director could imagine: a childlike waywarder who falls for a man, yet plays the impulsive alibi for the camera-savvy. She's like the cure dispatcher in Wong Kar-wai's *Chungking Express*, who routinely steals into a seamy, match apartment and cleans it. Shooting in 80 Paris locations, Jeunet did his own frisky housekeeping—scrubbing away the gruff. But compared with the theme-park farcure of *Chocolat* or *Monty Python*, Amélie is lean and aesthetically fine. And although it's not long for a film so slight, it transports us to a Paris that's as treasurable as it is surreal.

Byron D. Johnson

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Keep on rocking in the ironic world

Dark, twisted, anachronistic. It's not only films and literature that give Canada a reputation for ironic creativity. New albums by Canada's Rheostatics and Matthew Good Band prove that long writers and wide-open spaces also inspire eccentric songwriting. While neither inhabits the ironic fringe, both recordings are filled with enough quirky metaphors and ambitious sounds to be labelled 'surreal rock.'

With his achy roots, Vancouver's Good has already earned himself the title of Canrock's angry young man. This fall, he published *At Last There Is Nothing Left to Say*, a collection of rambling and wildly imaginative short stories. Now, with his band's fourth album, *The Audio of Being* (Universal), Good has ended hard-driving pop for black rock epics with titles like *The Red Wine World Be King*. Typical of the postmodern tone is *The Fall of Man*, in which Good sings, "You pray for the sheep, look forward to hell." Depressing, but far from dull.

After *Music Inspired by the Group of Seven* and last year's *Story of Hornerbush*,



With original music, Rheostatics' third album is a postmodernist's dream.

a children's tale set to music, Toronto's Rheostatics have abandoned the concept album for an eclectic collection of songs called *Night of the Shining Stars* (Mercury/UMG). Doug Babin's contributions are full of whimsy. But the most fantastic Rheostatic songs are those by Martin Tielli, whose politically charged *These*

Days Are Good for the Canadian Conservative Youth Party album serves as a witty follow-up to the band's 1997 hit *Bad Time to Be Poor*. When he sweetly sings "I've got my pain, but I don't care plan," Tielli's voice is laced with the sort of sardonic irony for which the Great White North has become famous. *Nicholas Jennings*

Remembering a trailblazer

In a time of rampant Internet networks, a small club built the created for Piers Tordella in 1968, Joyce Wieland quipped within three genius minutes' notice: "Between our people? It's a matter that never applied to the artist himself." Wieland, who died in 1994 at the age of 57, lived, loved and worked in polemical extremes. Now, two new biographies—*Joyce Wieland: Artist on Fire* (Luttrell, \$45) by author and sculptor Jane Lind, and *Joyce Wieland: A Life in Art* (ECW, \$15.95) by writer Ms. Howell—provide intimate portraits of the trailblazing painter, sculptor and filmmaker. Both books make for compelling reading, that how could they not? Wieland's life was the stuff of myth.

Ram and raised in Toronto in what she described as "Oklahoma poverty"—she was 7 when her father died and 10 when she lost her mother—Wieland eventually became one of the country's most productive and acclaimed artists, the first female ever to be recognized with a solo exhibit at the National Gallery during her lifetime. She broke

through the conventions of the male-dominated art world of the '50s and '60s with the heretofore and, at the time, heretical use of women's arts like sewing and knitting to make surface political statements. Multitasking, earthy and irreverent, Wieland left a wild, brilliant life, and lived for a time in an illegal loft in Lower Manhattan during her long, troubled marriage to artist Michael Snow. Both books, based on interviews with family, friends and colleagues, lean more heavily on anecdotes than artistic interpretation. In *A Life in Art*, Howell, a longtime mistress of World Toronto, draws on personal encounters with Wieland during her years on the art scene, and her often girly book tends to lapse into psychological speculation. Lind, who conducted lengthy interviews with Wieland in the decade before her death from Alzheimer's, produces a more authoritative chronicle in *Artist on Fire*, a handsome hard-cover, more fully illustrated with dozens of personal photographs and other reproductions of more than 50 of Wieland's works.

Sharon Deyle Deinger



Wieland worked and lived passionately

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Entertainment Notes

All the Gorey facts

The reclusive American artist and writer Edward Gorey—perhaps best known for the swarming figures who begin episodes of PBS's *Mystery* series—died last year. But his cult lives on. In *Assessing Productivity* (Random), Karen Wilson has gathered interviews spanning the last quarter century of a man famous for such disturbing classics as *The Gashlycrumb Tinies*, an illustrated alphabet in which a child perishes for every letter: "A is for AMY who fell down the stairs, B is for BASIL as-
saulted by bears." One of the best pieces comes *New Yorker* art critic Schaff's 1992 visit to Gorey's Cape Cod home. Two centuries old, swarming by cats, with piles of books reaching to ceilings packed with cardboard—and a vine growing through one wall—the house was a fit match for an eccentric owner.



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Allan Fotheringham

GOALS:

Taking stock of Day

While in the magnificent corner office on Parliament Hill, 409-S, that the taxpayers provide for the Leader of Her Majesty's Alliance Loyal Opposition, Stockwell Day has orange juice, apple juice, coffee and muffins waiting.

What is your mood at the moment? How would you describe it?

I feel encouraged by the fact we finally have a caucus in place where people are focused, are disciplined, staying on topic. I think both our caucus and party have learned a brutally painful lesson they should have known beforehand. That publicly fighting about stuff that should be debated internally does nothing but hurt everybody. The team we've got in place now and have for about five months, people are acting like grown-ups. So I feel good about that. I think July was a key point with us putting the leadership question back into the hands of our members—steering away from any elite group to decide. And then caucus laying out an alternative to the so-called duopoly. Five of them have returned.

Do you think the Central Canada press—Toronto media and National Post Gallery—is inherently prejudiced against an outsider, someone from the West?

It was a journalist who put me best talking to a group of young Alliance activists about a year ago. He said, "In Ontario, here's how we do it. We sit up in the gallery in Question Period. We watch to see who's been wounded. And then when they come staggering out of the House, we circle around them with our spears and finish them off." Coming from a journalist, I thought that was a reasonably fair estimation.

So they haven't finished you off?

To me, that's been the cooking part. It was Churchill who said, after his experience at the Boer War, "There's nothing quite as exhilarating as being shot at and not exactly being hit." So I think I've learned some lessons, and some hard ones, and our caucus has. As I think there is that tendency towards group-kill to set in, I do think there is a grudging honesty that will surface even among that pack and, over time, if you do a good job they will grudgingly begin to report that. And it's begun to happen now.

Do you think Premier Manning has quietly undervalued you?



I wasn't passing to think. I was sipping my coffee, so I know you won't write that "he was passing to think." I'm not going to publicly speculate on my private feelings. I know that, that when our leadership race is over, if it goes in March as I think it will, if I decide to run, and if I win, I will expect to call for full support from all leadership candidates.

Have talked about the "blue" that would suggest Mr. Manning would be one of them?

As you know, a former MP signed an affidavit in August saying after the first vote of the leadership race, a year ago, a meeting was held of all 50-some members of the opposing camp and a clear plan was articulated

to cause the leader and/or the party to implode—they said a night take up to a year. But they had to work towards that plan. So that was someone who was on the call. A former MP feeling badly about it I guess, and wanting to expose that. And a week after that, a national councillor who was also on the call was reported in the media as saying that call indeed took place and, yes, that plan was put in motion. Those are things we know publicly, who was behind it all. But I'm not focused on things Canadians want us to focus on—terrorism, etc.—to do the Sherlock Holmes routine on that. If others want to do that, that's fine.

Do you talk to Joe Clark?

I do, in passing. We talk socially.

But you don't talk about "Unus et contra?"

My formal approach is, "Joe, I'm willing to have an open leadership race. What do you think about it? Either jump in or bow out. Let's make a bold move, so unite conservatives."

And each time, Joe has decided to step back.

Does your wife want you to get out of politics?

Depends on which day you ask her. Today is Tuesday. The answer is No. Ask her last Friday you'd get a different response. *She's your chief adviser, and always has been?*

That's correct.

My final question, and I know you will answer it honestly: are you going to run?

I've made up my mind and Allan, you'll be among the first to know.

To have that Lake City with a medal and a smile. Well, at least a medal.

Pat Quinn



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